NOKIA 7250i

User Guide

All screen images are simulated.

NOKIA
CONNECTING PEOPLE

Nokia 7250i User Guide

User Guide for Nokia 7250i Phone

What information is needed?	Numbers	Where is the number?
My number		Wireless service provider
Voice mail number		Wireless service provider
Service provider's number		Wireless service provider
Provider's customer care		Wireless service provider
Model number		Label on back of phone (under battery)
Phone type		Back of title page
Electronic serial number (ESN)		Label on back of phone (under battery). See **"Find information about your phone" on page 12.**

The wireless phone described in this guide is approved for use in GSM 900, 1800, and 1900 networks.

LEGAL INFORMATION

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Your phone may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

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1 For your safety

Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this manual.

Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

ROAD SAFETY COMES FIRST

Don't use a handheld phone while driving.

INTERFERENCE

All wireless phones may get interference, which could affect performance.

SWITCH OFF IN HOSPITALS

Follow any regulations or rules. Switch the phone off near medical equipment.

SWITCH OFF IN AIRCRAFT

Wireless devices can cause interference in aircraft.

SWITCH OFF WHEN REFUELING

Don't use the phone at a refueling point. Don't use near fuel or chemicals.

SWITCH OFF NEAR BLASTING

Don't use the phone where blasting is in progress. Observe restrictions, and follow any regulations or rules.

USE SENSIBLY

Use only in the normal position. Don't touch the antenna unnecessarily.

QUALIFIED SERVICE

Only qualified personnel may install or repair phone equipment.

ENHANCEMENTS AND BATTERIES

Use only approved enhancements and batteries. Do not connect incompatible products.

WATER-RESISTANCE

Your wireless phone is not water-resistant. Keep it dry.

BACKUP COPIES

Remember to make backup copies of all important data.

CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.

CALLING

Ensure the phone is switched on and in service. Enter the phone number, including the area code, then press the **Talk** key. To end a call, press the **End** key. To answer a call, press the **Talk** key.

EMERGENCY CALLS

Ensure the phone is switched on and in service. Press the **End** key as many times as needed (for example, to exit a call, to exit a menu) to clear the display. Enter the emergency number, then press the **Talk** key. Give your location. Do not end the call until told to do so.

2 Overview of functions

Note: The phone must be switched on to use these functions. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

Note: Certain features use shared memory. See "Shared memory" on page 16 for more information.

• CAMERA

Your phone has a built-in camera. You can use the full-color screen as a camera viewfinder and the self-timer for a 10-second delay. After you have taken a picture, you can attach it to a multimedia message and send it with MMS, save it as wallpaper in standby mode, use it as a thumbnail picture in contacts, save it in a compatible PC using Nokia PC Suite software, and upload it to a web address with the content image uploader. When you attach a picture to an entry in your list of contacts, the picture is displayed when your contact calls you.

See "Camera (Menu 7)" on page 104 for more information.

• FM RADIO

Your phone has an FM radio that also functions as a clock radio alarm. You can listen to the radio through a headset or the handsfree speaker (with the headset attached).

See "Radio (Menu 6)" on page 102 for more information.

• MULTIMEDIA MESSAGING SERVICE (MMS)

Your phone is able to send and receive multimedia messages made up of text and pictures and to receive messages containing text, a picture, and sound such as polyphonic ringing tones. You can save pictures and ringing tones to personalize your phone. In addition, you can easily send text messages and multimedia messages to multiple recipients.

See "Multimedia messages" on page 61 and "Options" on page 46 for more information.

• SPEAKERPHONE

You can use your phone as a speakerphone.

See "Use the loudspeaker" on page 29 for more information.

• WIRELESS NETWORK SERVICES

The wireless phone described in this guide is approved for use on the GSM 900, 1800, and 1900 networks.

A number of features in this guide are called network services. These are special services that you arrange through your service provider. Before you can take advantage of any of these network services, you must subscribe to them through your service provider and obtain instructions for their use from your service provider.

See "Services (Menu 14)" on page 138 for more information.

• GENERAL PACKET RADIO SERVICE (GPRS)

GPRS technology allows mobile phones to send and receive data over a mobile network. Applications such as browsers, MMS, text messaging, and Java™ use GPRS. Your phone supports up to three simultaneous GPRS connections.

For more information on GPRS, see "GPRS, HSCSD, CSD" on page 135.

Also, consult the PC Connectivity Guide. The PC Connectivity Guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of **www.nokia.com**.

• MIDP JAVA™ APPLICATIONS

Your phone supports Java 2 Micro Edition, J2ME™, and includes some Java applications and games that have been specially designed for mobile phones.

You may be able to download new applications and games to your phone from a PC with Java installer software or from some mobile Internet services.

See "Applications (Menu 11)" on page 119 for more information.

• POLYPHONIC SOUND (MIDI)

Polyphonic sounds can be used in ringing tones, gaming sounds, and message alert tones. They consist of several sound components played at the same time, like an actual melody through a speaker. Your phone has sound components from over 40 instruments that can be used for polyphonic sounds and the phone can play four instruments simultaneously. The phone supports scalable polyphonic MIDI (SP-MIDI) format.

You can receive polyphonic ringing tones using a multimedia service (see "Read and reply to a multimedia message" on page 65) or download them using the gallery menu [see "Gallery (Menu 8)" on page 107].

• ADVANCED MULTIMEDIA PLAYER

The built-in multimedia player allows you to view images and play audio, video, and image animations. The multimedia player is activated by other features, such as the Gallery, when there are multimedia files to be displayed.

See "Advanced multimedia player" on page 43 for more information.

• BROWSER

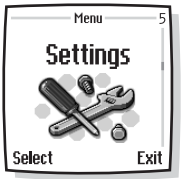
The built-in browser can interpret both WAP-based and xHTML-based content.

See "Services (Menu 14)" on page 138 for more information.

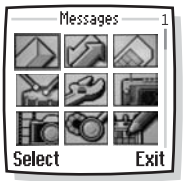
• SPECIAL USER INTERFACE FEATURES

You can choose from two types of menu interface: **List** and **Grid**. See "Select menu view" on page 97 for more information.

In the **List** interface, full color animated images introduce every menu. Use the **Scroll up** and **Scroll down** keys to navigate through the menus.



In the **Grid** interface, multiple menu icons appear on a single display. Use all four scroll keys to navigate through the icons.



With the **Go to** menu feature, you can create a convenient shortcut menu available through the **Right selection** key that lists the functions that you use most often. For more information about the **Go to** menu, see "Personal shortcuts" on page 87.

Quick keys from the start screen take you instantly to functions accessed frequently. See "Quick keys" on page 14 for more information.

3 Welcome and quick guide

Note: The phone must be switched on to use these functions. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

Congratulations on your purchase of the Nokia 7250i mobile phone. Your phone provides many functions which are practical for daily use, such as a camera, radio, alarm clock, calculator, wallet, calendar, and more. Your phone can also connect to a PC, laptop, or other device using the data cable or built-in IR port. To personalize your phone, you can set your favorite ringing tones, create a Go to Menu, and select an Xpress-on™ color cover. For more information on connectivity, refer to the PC Connectivity Guide. The PC Connectivity Guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of **www.nokia.com**.

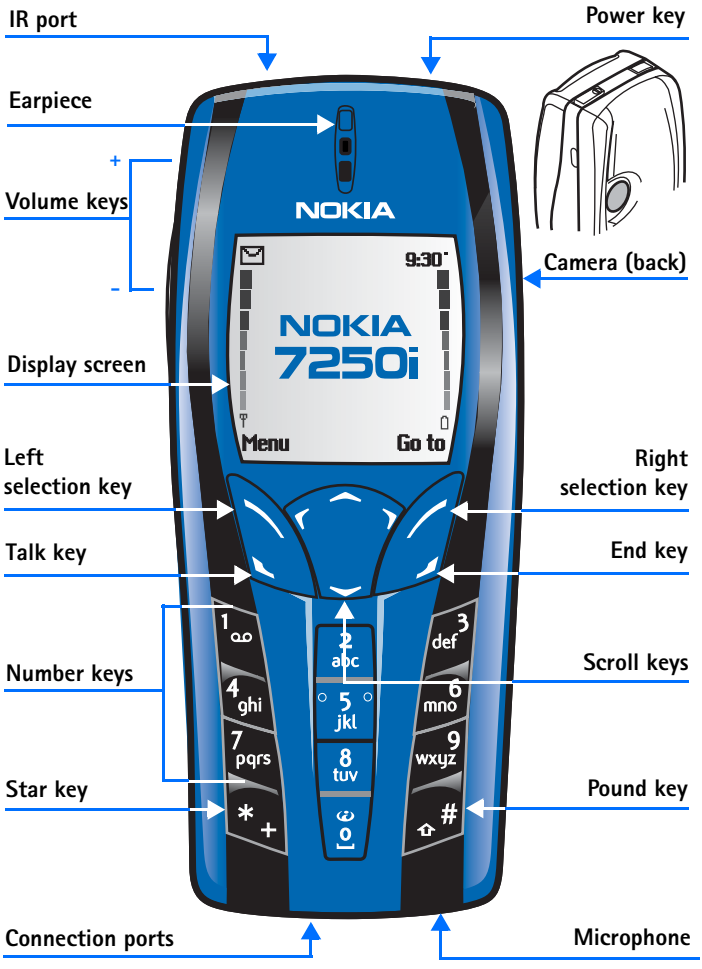
• REGISTER YOUR PHONE

Be sure to register your phone at **www.warranty.nokiausa.com** or call 1-888-NOKIA-2U (1-888-665-4228) so that we can serve you better if you need to call a customer center or to have your phone repaired.

• E-NEWSLETTERS

When you register your phone, you can sign up for Nokia's e-newsletter, Nokia Connections. You will receive tips and tricks on using your phone, enhancement information, and special offers.

• NOKIA 7250i PHONE AT A GLANCE



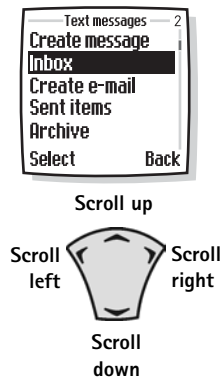
• GET THE MOST OUT OF THIS GUIDE

The "Nokia 7250i phone at a glance" diagram on page 8 illustrates the various components of your phone. Familiarize yourself with the diagram to help you better understand the instructions that follow.

Terms

This guide uses certain terms for the steps that you are asked to perform.

- **Press** means to press and release a key quickly. For example, **Press 7** means press the key on the keypad that is labeled with the number **7** and the letters "pqrs".
- **Press and hold** means to press and hold a key for 2–3 seconds (depending on the feature you are using), then release the key.
- **Highlighted** options on the screen are enclosed within a dark bar. The selection keys are used to act on the highlighted option.
- **Scroll keys** are used to move up and down in the menus. With some features, such as the calendar monthly view, text messages, and special characters, you can move the screen cursor left and right as well as up and down. For example, if instructed to scroll to another contacts entry, this means press the **Scroll up** key or the **Scroll down** key. In some submenus, not all options are visible at once, and you may need to scroll up or down to view the full range of options.



- **Select** means to press the **Left selection** key or the **Right selection** key. To select an option, press the selection key below the menu item on the phone screen. In the illustration, press the **Left selection** key to select **Inbox**, or press the **Right selection** key to go back to the previous menu. Some functions require you to go through several

submenus. For example, if this guide says **Select Stopwatch > Lap timing > Start** you would scroll to the **Stopwatch** option and press the **Left selection** key, then scroll to the **Lap timing** option and press the **Left selection** key, then scroll to the **Start** option and press the **Left selection** key.

- **Talk** and **End** keys. Press the **Talk** key to place a call or to answer an incoming call. Press the **End** key to end a call or press and hold to return to the start screen.

Text clues

Text clues make instructions easy to follow.

Bold indicates one of the following items:

- A word or phrase on the display
- Special text such as **Notes** and **Warnings**
- Names of keys such as **Right selection** key

Bold and blue indicates one of the following items:

- The word is an address on the World Wide Web.
- A definition for the word or phrase is listed in the glossary.

Italic characters are used for emphasis or to indicate a variable.

Graphic clues

Graphic clues (icons) alert you to important information.

Tip: Provides a shortcut or an alternate method to do something.

Note: Explains a feature or points out an important concept.

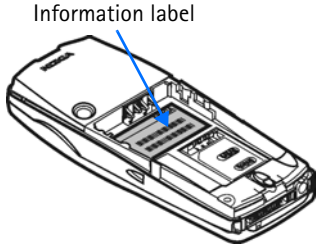
Warning: Helps you avoid information loss, personal injury, damage to the phone, or property damage.

• QUICK GUIDE TO FUNCTIONS

Make a call	Enter a phone number, press the **Talk** key.
Answer a call	Press the **Talk** key or select **Answer**.
Use call waiting	To answer a new call during another call, press **Talk**.
End a call	Press the **End** key.
Mute ringing tone	Select **Silence** when your phone rings.
Decline a call	Press the **End** key. The call is sent directly to voice mail.
Mute a call	Select **Mute** during a call.
Redial last number	Press the **Talk** key twice.
Adjust call volume	Press the **Volume** keys during a call.
Use in-call menu	Select **Options** during a call.
Select menu view	Select **Settings** > **Display settings** > **Menu view**, then select either **List** or **Grid**.
Save a name and number in contacts	Enter a number, select **Options**, select **Save**, then enter a name and select **OK**.
Use 1-touch dialing	Press and hold a key from **2–9**. You must first assign a number in contacts to a key.
Look up a name or number	Select **Contacts** > **Find**. Enter the first character of a name and scroll to the name, then select **Details**.
Check voice mail	Press and hold the **1** key OR call your voice mailbox number (contact your service provider for complete details).
Send text messages	Select **Menu** > **Messages** > **Text messages** > **Create message**. Enter a message, select **Options** > **Send**, enter the recipient's phone number, and select **OK**.
Read new message	Select **Show**.
Reply to a message	After reading a message, select **Options** > **Reply**, write the reply, select **Options** > **Send**.

• GET HELP

Find information about your phone



If you need help, Nokia Customer Care is available for assistance. Before calling, however, read "Troubleshooting" on page 167.

We also recommend that you write down the following information and have it available if you call.

- The International Mobile Equipment Identifier (IMEI) printed on the back of the phone, beneath the battery
- Your zip code

Contact Nokia

Please have your phone or enhancement with you when contacting either of the numbers below.

Nokia Customer Care Center, USA	**Customer Care, Canada**
Nokia, Inc. 7725 Woodland Center Boulevard Suite 150 Tampa, Florida 33614 Tel: 1-888-NOKIA-2U (1-888-665-4228) Fax: 1-813-249-9619 TTY: 1-800-24-NOKIA (1-800-246-6542) (hearing impaired only)	Nokia Products Ltd. 601 Westney Road South Ajax, Ontario L1S 4N7 Tel: 1-888-22-NOKIA (1-888-226-6542) Fax: 1-905-427-1070

Contact your service provider

To use the network services available in your phone, you will need to sign up with a service provider. In many cases, the service provider will make available descriptions of their services and instructions for using features such as:

- Voice mail and voice privacy
- Call waiting, call forwarding, and caller ID
- Messaging
- News and information services
- Selected Internet services

Service providers may differ in their support of features. Before you sign up, make sure a service provider supports the features that you need.

Guide updates

From time to time, Nokia updates this guide to reflect changes. The latest version may be available at **www.nokia.com**.

Online tutorials

An interactive tutorial for this product may be available at the web site **www.nokiahowto.com**.

In-phone help

Many features have brief descriptions (help text) which can be viewed on the display. To view these descriptions, scroll to a feature and wait for about 15 seconds. Select **More** to view all of the description (if necessary), or select **Back** to exit.

To activate or deactivate help text:

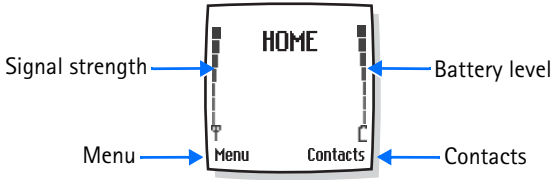
1 From the menus, select **Settings > Phone settings > Help text activation**.

2 Select **On** or **Off**.

A confirmation message appears in the display indicating your selection.

• START SCREEN

The start screen is "home base" and indicates that the phone is in standby mode.



HOME—The name of your service provider may appear here.

Signal strength—A higher bar indicates a stronger network signal.

Battery level—A higher bar indicates more power in the battery.

Menu—The Left selection key in standby mode accesses the menu functions.

Contacts—The **Right selection** key in standby mode accesses either the **Contacts** menu, the **Go to** menu, or a service provider's home page.

After you set functions for the **Right selection** key, the word **Contacts** changes to **Go to** in the start screen. To set the functions, see "Personal shortcuts" on page 87.

To activate a function in the **Go to** menu, select **Go to** in the start screen, scroll to the desired function, and select **Select**.

Quick keys

From the start screen, each scroll key takes you directly to a function:

Scroll up—Activate the camera viewfinder.

Scroll left—Create a message.

Scroll down—Go to your list of contacts.

Scroll right—View the calendar.

Screen saver

The phone automatically activates a digital clock screen saver to save power in standby mode. Press any key to deactivate the screen saver. For more information, see "Set screen saver timeout" on page 98.

Wallpaper

You can set the phone to display a background picture (wallpaper) when it is in standby mode. See "Wallpaper" on page 96.

Indicators and icons

Icon	Indicates...
	You have one or more text or picture messages. See "Receive a message or e-mail" on page 60.
	You have one or more multimedia messages. See "Read and reply to a multimedia message" on page 65.
	You have one or more voice messages. See "Voice messages" on page 67.
	Your phone keypad is locked. See "Lock the keypad" on page 35.
	Your phone is set to the **Silent** profile. See "Profiles (Menu 4)" on page 85.
	The alarm clock is set to **On**. See "Alarm clock" on page 110.
	The countdown timer is running. See "Countdown timer" on page 123.
	The stopwatch timer is running in the background. See "Stopwatch" on page 124.
	A GPRS dial-up connection is established. See "GPRS dial-up connections" on page 136.
	You have an incoming or outgoing call during a GPRS dial-up connection. GPRS is suspended.
	IR connection indicator. See "Infrared" on page 134.

Icon	Indicates...
	Forward all voice calls. All calls are forwarded to another number. If you have two phone lines, the indicator for line 1 is and for line 2 .
	If you have two phone lines, this indicates that you are on the second phone line. See "Phone settings" on page 93.
	Integrated handsfree is active. See "Speakerphone" on page 4.
	Calls are limited to a closed user group. See "Closed user groups" on page 39.
	The timed profile is selected. See "Profiles (Menu 4)" on page 85.
, or	A headset, handsfree, or loopset enhancement is connected to the phone.
or	Voice privacy encryption is active (or is not active) in the network.

• SHARED MEMORY

The following features in this phone may share memory: contacts, text and multimedia messages, images and ringing tones in gallery, calendar, to-do notes, and Java games and applications. Using any such features may reduce the memory available for any features sharing memory. This is especially true with heavy use of any of the features (although some of the features may have a certain amount of memory specially allotted to them in addition to the amount of memory shared with other features). For example, saving many images, bookmarks, Java apps, or other features sharing memory may take all of the shared memory and your phone may display a message that the memory is full. In this case, delete some of the information or entries stored in the shared memory features before continuing.

• COPYRIGHT PROTECTION

Copyright protections may prevent some images, ringing tones, and other content from being copied, modified, transferred or forwarded.

• ACCESSIBILITY SOLUTIONS

Nokia is committed to making mobile phones easy to use for all individuals. For more information about phone features, enhancements, alternate format user guides, and other Nokia products designed with your needs in mind, visit the web site **www.nokiaaccessibility.com** or call 1-888-665-4228.

• PHONE MENUS

Phone features are grouped according to function and are accessed through the main menus of your phone. Each main menu contains submenus and lists from which you can select or view items and customize phone features. You can access these menus and submenus by using the scroll method or by using a shortcut.

Note: Some features may not be available, depending on your network. For more information, contact your service provider.

Scroll method

1 At the start screen, select **Menu**.

2 In the **List** view, scroll through the main menus one at a time using the **Scroll up** key and the **Scroll down** key.

OR

In the **Grid** view, use all four scroll keys to navigate through the menu icons.

As you scroll through the menus, the menu number appears in the upper right corner of the display. Below the menu number is a scroll bar with a tab. The tab moves up or down as you scroll through the menus, providing a visual representation of your current position in the menu structure.

In addition, in the Grid view, the icon for the selected menu is outlined, and the name of the menu appears at the top of the display.

3 When the desired menu is highlighted, press the **Left selection** key.

4 If the menu contains submenus, use the scroll keys to highlight the desired menu, then press the **Left selection** key.

- Select **Back** (press the **Right selection** key) to return to the previous menu or submenu.
- Press the **End** key to return to the start screen from any main menu.

Shortcuts

You can go directly to almost any menu or submenu, as well as activate most features by using a shortcut.

Select **Menu**, then within 3 seconds, press the key or keys associated with the menu function you would like to view or activate.

For example, to select the **Meeting** profile, select **Menu 4–3–1** (**Menu > Profiles > Meeting > Select**) from the start screen. After a brief pause, the **Meeting** profile is activated.

A list of shortcuts begins on page 19.

• MENU SHORTCUTS

To access a menu quickly, select **Menu**, then enter the shortcut. For example, to create a multimedia message, select **Menu**, press the **0** key, then the **1** key, then the **2** key, and then the **1** key. (Menu 0-1-2-1 is the **Messages > Multimedia msgs > Create message** menu.)

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Note: Some phone features are network-dependent. Menus for certain features may or may not appear, or may appear in a different sequence, due to their availability in your network (such as call costs, bookmarks, operator logo, line for outgoing calls, info numbers for contacts, etc.). Contact your service provider for availability.

4 Basic operations

Note: The phone must be switched on to use these functions. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

• INSTALL THE SIM CARD

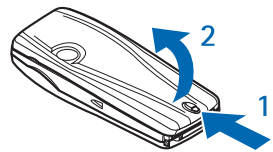
The SIM card and its contacts can easily be damaged by scratches or bending, so be careful when handling, inserting, or removing the card.

Before installing the SIM card, always make sure that the phone is switched off and that you have removed the cover and battery.

REMOVE THE BACK COVER

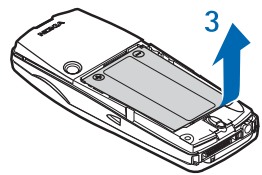
1 With the back of the phone facing you, push the back cover release button.

2 Lift the bottom of the back cover to remove.



REMOVE THE BATTERY

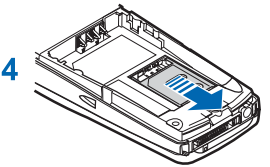
3 After you have removed the back cover, insert your finger into the finger grip and lift the battery from its compartment.



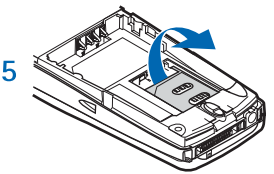
Warning: Keep all SIM cards out of reach of small children.

INSERT THE SIM CARD

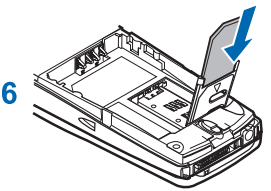
4 Slide the SIM card holder toward the bottom end of the phone until it unlocks.



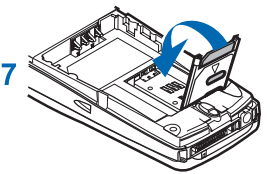
5 Swing the SIM card holder open.



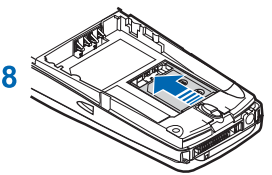
6 Insert the SIM card into the holder (beveled corner last) with the gold contacts facing toward the top end of the phone.



7 Close the SIM card holder.

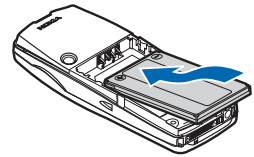


8 Slide the SIM card holder toward the top end of the phone until it locks into place.



REPLACE THE BATTERY

The SIM card must be installed *before* installing the battery.



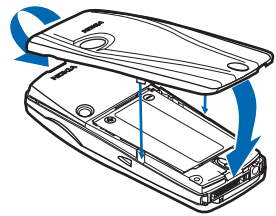
9 Position the battery so the gold contacts match up with those on the phone.

The battery label should be facing *away* from the phone.

10 Insert the battery, contact end first into the battery slot.

11 Snap the other end of the battery into place.

REPLACE THE BACK COVER



12 Place the top of the back cover to the locking catch in the top of the phone.

13 Position the back cover over the locking catches on both sides of the phone and press down to lock the cover into place.

• SWITCH THE PHONE ON OR OFF

Warning: Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

1 To turn your phone on or off, press and hold the power key on top of the phone for at least 3 seconds.

If the phone displays **Insert SIM card** even though the SIM card is properly inserted, or **SIM card not supported**, contact your service provider.

2 If the phone asks for a PIN code, enter the PIN code (displayed as ****) and select **OK**.

See "PIN code request" on page 35 for more information.

3 If the phone asks for a security code, enter the security code and select **OK**.

See "Security code" on page 41 for more information.

Note: If the language that appears in your display is not correct, see "Set the display language" on page 93 for information on changing the display language.

• SET THE CLOCK

Before many functions such as call timers will operate properly, you need to set the clock.

1 From the menus, select **Settings > Time and date settings > Clock > Set the time**.

2 Enter the time in *hh:mm* format, and select **OK**.

3 Select **am** or **pm**.

The time is set.

• MAKE AND ANSWER CALLS

Use the keypad

1 Enter the phone number (including the area code), and press the **Talk** key.

To delete a character to the left of the cursor, select **Clear**.

2 To end the call or to cancel the call attempt, press the **End** key.

Use contacts

1 At the start screen, press the **Scroll down** key and scroll to the entry you wish to view.

2 Press the **Talk** key to make the call or select **Details** to view details of the entry.

Tip: To search the list of entries quickly, press any key in which the letters match the first letter of the name for which you are searching.

Redial a number

1 At the start screen, press the **Talk** key to display the last 20 numbers you have dialed.

2 Press the **Talk** key to redial the last number, or scroll to the number (or name) you wish to redial and press the **Talk** key.

Make an international call

1 Press the **Star** key twice for the international prefix.

A plus (+) sign replaces the international access code.

2 Enter the country code, the area code without a leading zero (if necessary), and the phone number.

Make a conference call

Conference calling is a network service that allows up to six persons to take part in a conference call.

1 Make a call to the first participant.

2 To call a new participant, select **Options > New call**.

3 Enter the phone number of the new participant (or select **Find** to retrieve a number from contacts) and select **Call**.

The first call is put on hold.

4 When the new call picks up, select **Options > Conference** to connect the calls.

5 To add a new participant to the call, repeat steps 2–4.

6 To have a private conversation with one participant, select **Options > Private**, and select the desired participant. Rejoin the conference call as described in step 4.

7 To end the conference call, press the **End** key.

Answer or reject an incoming call

- Press the **Talk** key to answer the call.

- Press the **End** key to reject the call. If **Forward if busy** is activated to your voice mailbox, the call is diverted to your voice mail. If not, the call is rejected.

  If you select **Silence**, only the ringing tone is muted. You can then either answer or reject the incoming call.

Tip: If the HDB-4 or HDS-3 headset is connected, you can answer or end a call by pressing the key on the headset.

Answer a call with the keypad locked

To answer a call with Keyguard on, simply press the **Talk** key. During the call, all features function as normal. When you end or reject the call, the keypad automatically relocks.

Note: When Keyguard is on, calls may be possible to emergency numbers programmed into your phone (for example, 911). Enter the emergency number and press the **Talk** key. The number is displayed only after you have keyed in its last digit.

• ADJUST THE EARPIECE VOLUME

- To increase the volume of a call, press the volume up key on the left side of the phone.
- To decrease the volume of a call, press the volume down key on the left side of the phone.
- When adjusting the volume, a bar chart appears in the display indicating the volume level.

• USE THE LOUDSPEAKER

You can use your phone as a loudspeaker during a call. Do not hold the phone to your ear during the loudspeaker operation.

- To activate the loudspeaker, select **Options** > **Loudspeaker**.
- To deactivate the loudspeaker during a call, select **Options** > **Handset**.
- The loudspeaker is deactivated automatically when a call (or a call attempt) ends or when certain enhancements are connected.

Note: When you select the **New call** option from the in-call menu, the loudspeaker does not automatically deactivate.

• CALL AND SET UP YOUR VOICE MAIL

1. After you save your voice mailbox number (see "Save your voice mailbox number" on page 67), press and hold the **1** key.
2. When you connect and the prerecorded greeting begins, follow the automated instructions to set up your voice mail.

• LISTEN TO YOUR VOICE MESSAGES

1. After you have set up voice mail, you can dial the number one of three ways:
   - Dial the number using the keypad.
   - Press and hold the **1** key.
   - Select **Listen** if there is a notification message in the display.
2. When you connect and the prerecorded greeting begins, follow the automated instructions to listen to your voice messages.

• OPTIONS DURING A CALL

Many of the options that you can use during a call are network services. During a call, select **Options**, then select one of the following:

Mute—Mute your voice; you can hear the other party but they cannot hear you.

Unmute—Return to normal from mute status.

End call—End the call.

End all calls—End all calls within a conference call.

Contacts—Open the contacts menu.

Menu—Display the main menus.

Hold—Place the current call on hold.

Unhold—Remove the current call from hold status.

Lock keypad—Lock the keypad to prevent an accidental key press.

New call—Place a new call; the first call is put on hold.

Conference—Call another party and invite them into the call.

Private—Have a private conversation with one participant in a conference call.

Answer—Answer another incoming call.

Reject—Reject a call; the calling party receives a busy signal.

Loudspeaker—Enable the handsfree feature in your phone.

Handset—Disable handsfree and return to normal use (earpiece).

Touch tones—Send touch tones generated by your phone keypad.

Swap—Switch between the active call and the call on hold.

Transfer—Connect a call on hold to an active call, and disconnect yourself from the calls.

5 Text entry

Note: The phone must be switched on to use these functions. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

You can use two methods for entering text and numbers.

- **Standard mode** is the only way to enter names into contacts and to rename caller groups.
- **Predictive text input** is a quick and easy method for writing messages.

Press the **Pound** key to switch predictive text on or off and to use predictive text in various modes. Press and hold the **Pound** key to switch between text and numeric entry. As you press the **Pound** key, the following icons (not the descriptions) appear in the upper left of the display:

Icon	Indicates...
	Uppercase text. Predictive text is **Off**.
	Lowercase text. Predictive text is **Off**.
	Sentence case text. Predictive text is **Off**.
	Sentence case text. Predictive text is **On**.
	Lowercase text. Predictive text is **On**.

• STANDARD MODE

Enter text (Abc)

- Press a key once to insert the first letter on the key, twice for the second letter, etc. If you pause briefly, the last letter in the display is accepted and your phone awaits the next entry.
- Select **Clear** to backspace the cursor and delete a character.
- Select and hold **Clear** to backspace continuously and delete characters.

- Press the **0** key to enter a space and accept a completed word.
- Press the **1** key to enter a period (.).
- Press the **Star** key to display special characters. See "Enter punctuation and special characters" on page 34.

Enter numbers (123)

To switch to **123** mode from **Abc** mode, press and hold the **Pound** key at any message entry screen until the icon in the upper left corner of the display switches from **Abc** to **123** (or vice versa).

• PREDICTIVE TEXT INPUT

Predictive text input allows you to write messages quickly using your keypad and the built-in phone dictionary. It is much faster than using the standard mode "multi-tap" method. You can use predictive text to write a message, create a calendar note, and make a to-do list.

Note: When predictive text is on, the icon appears in the upper left corner of the display. When predictive text is off, the icon appears in the upper left corner of the display.

Activate predictive text

1 At any text entry screen, select and hold **Options**.

OR

At a text entry screen, select **Options** > **Predictive text**.

2 Select the language of your choice.

A confirmation message shows that predictive text is turned on.

Enter text

- For each letter of the word that you want to spell, press the corresponding key on your keypad only *once*, even if the letter you want is not the first letter on the key. The phone "guesses" the word you are trying to spell.

- If a displayed word is not correct, press the **Star** key to see other matches. To move forward through a list of matches, keep pressing the **Star** key. To return to the previous word in the list of matches, select **Previous**.
- Press the **0** key to accept the word, enter a space, and begin writing the next word.
- If **?** appears after a word, select **Spell** to add the word to the dictionary. See "Add new words to the dictionary" on page 33.
- Press the **1** key to insert a period into your message.
- Press and hold the **Star** key to display special characters. See "Enter punctuation and special characters" on page 34.

Compound words

Enter the first part of the word and confirm it by pressing the **Scroll right** key. Enter the last part of the word and confirm it by pressing the **0** key.

Add new words to the dictionary

If you encounter a word that predictive text does not recognize, a question mark (**?**) follows the word and **Spell** appears in the lower left of the display.

Select **Spell**, enter your new word using the keypad, and select **Save**. The word is added to the dictionary and to the message that you are writing.

Keep these factors in mind when adding words:

- New words that you accept by selecting **Save**, the **0** key, or deleting the space between two words are saved to the dictionary.
- Depending on the language and the length of the words, you may be able to add hundreds of words to the dictionary.
- When the dictionary is full, the most recent addition replaces the first.

Predictive text example

To write *Nokia* with predictive text **on** and with the English dictionary selected, press each of the following keys *once*:

the **6** key | the **6** key | the **5** key | the **4** key | the **2** key

The illustration above simulates your display each time a key is pressed.

• ENTER PUNCTUATION AND SPECIAL CHARACTERS

While at any text entry screen, press the **Star** key to display special characters (press and hold the **Star** key if predictive text is on). The following special characters are available:

. , ' ? ! " - ( )
@ / : _ ; + & % *
= < > £ € $ ¥ ¤ [
] { } \ ~ ^ ¡ ¿ §
↵

Navigate through the list of special characters by using the four-way scroll keys like a joystick. Once a character is highlighted, select **Insert** to insert the character into your message.

6 Phone security

Note: The phone must be switched on to use these functions. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

An array of security features prevents accidental calls, allows you to restrict the calls your phone can make and receive, and keeps your stored information safe.

• KEYGUARD

With Keyguard, you can lock the keypad to prevent keys from being pressed accidentally.

If the keypad is locked, it unlocks when you receive a call. After the call, the lock automatically reactivates.

Lock the keypad

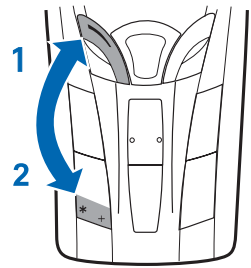
1 Select **Menu** with the **Left selection** key.

2 Press the **Star** key.

Unlock the keypad

1 Select **Unlock** with the **Left selection** key.

2 Press the **Star** key.



When Keyguard is on, calls may be possible to emergency numbers programmed into your phone (for example, 911). Enter the emergency number and press the **Talk** key. The number appears in the display after you have keyed in the last digit.

• PIN CODE REQUEST

The PIN code protects the SIM card from unauthorized access. The PIN code can be 4–8 digits in length. After three successive incorrect entries the PIN code is blocked and you will be asked to enter the personal unblocking key (PUK) code.

Note: The PIN code must be obtained from your service provider. The PIN code is typically provided with your SIM card.

Enable your phone to request the PIN code upon power-up. This provides extra security in case your phone is lost or stolen.

1 Select **Menu > Settings > Security settings > PIN code request**.

After a brief pause, you are prompted to enter the current PIN code.

2 Enter the PIN code and select **OK**.

3 Scroll to **On** and select **OK**.

A message appears in the display confirming your selection.

• CALL RESTRICTIONS

This network service lets you restrict the calls your phone can make and receive. Check with your service provider for details.

Note: When calls are restricted, calls may be possible to emergency numbers programmed into your phone (for example, 911). Enter the emergency number and press the **Talk** key. The number appears in the display after you have keyed in the last digit.

Turn on call restrictions

1 From the menus select **Settings > Security settings > Call restrictions**.

2 Select the type of calls you want to restrict. The options are:

Outgoing calls—Calls cannot be made.

International calls—Calls cannot be made to foreign countries.

International except to home country—When abroad, calls can be made only within the current country and to your home country (that is, the country where your home network operator is located).

Incoming calls—Calls cannot be received.

Incoming calls if roaming—Calls cannot be received outside your home area.

Cancel all call restrictions—Turns off all call restrictions. Calls can be made and received in the usual way.

Note: If you selected **Cancel all call restrictions**, the following steps are not available. Also, you can cancel call restrictions on each option, allowing restrictions on other options to stay in force.

3 Scroll to one of the following options:

Activate—Enter the restriction password and select **OK**.

Cancel—Enter the restriction password and select **OK**.

Check status—The phone lists the call types with call restriction active.

4 Select **OK**.

Change your restriction password

Contact your service provider for your original restriction password.

1 Select **Menu > Settings > Security settings > Access codes > Change restriction password**.

2 Enter your new password, then select **OK**.

• FIXED DIALING

Once you set up and activate a fixed dialing list, your phone can make calls only to those numbers that you have defined in the fixed dialing list. Fixed dialing is a network feature and must be supported by your service provider.

Note: When fixed dialing is set on, calls may be possible to emergency numbers programmed into your phone (for example, 911). Enter the emergency number and press the **Talk** key. The number appears in the display after you have keyed in the last digit.

Set up and activate a fixed dialing list

1 From the menus, select **Settings > Security Settings > Fixed dialing**.

After a brief pause, the following options appear in the display.

On—Activate fixed dialing.

Off—Deactivate fixed dialing.

Number list—View the numbers in your fixed dialing list.

Note: If you activate fixed dialing and the number list is empty, all outgoing calls, except for emergency numbers such as 911, require entry of the PIN2 code.

2 Select **Number list**.

Fixed dialing not active and then **Fixed dialing list empty** appear in the display.

You are prompted to enter the PIN2 code.

3 Enter the PIN2 code and select **OK**.

4 Enter the fixed dialing number, or select **Find** to retrieve a number from contacts and select **OK**.

5 Enter a name for the number and select **OK**.

A confirmation note appears in the display and you are returned to the fixed dialing number list.

6 Select **Back** > **On** to activate fixed dialing.

View or edit the fixed dialing list

1 From the menus, select **Settings** > **Security Settings** > **Fixed dialing** > **Number list**).

You are prompted to enter the PIN2 code.

2 Enter the PIN2 code and select **OK**.

Any numbers which you have assigned to fixed dialing appear in the display.

3 Scroll to a number and select **Options**.

The following options appear in the display.

View number—View the number for an entry.

Add—Add a number to your fixed dialing list.

Edit—Edit the highlighted entry.

Delete—Delete the highlighted entry.

Delete all—Delete all entries in your fixed dialing list.

4 Select the desired option.

Notes about fixed dialing

- If a SIM card with fixed dialing that is activated is inserted into a phone that does not support fixed dialing, the SIM card is rejected.
- If you try to add a name without a number to the fixed dialing list, you will receive an error message.
- If you try to browse the fixed dialing list but have not stored any numbers, **Fixed dialing list empty** appears in the display.
- You cannot access SIM memory manually (view or copy numbers on the SIM card) while fixed dialing is active.

• CLOSED USER GROUPS

This network service specifies the group of people whom you can call and who can call you. **Default** resets the phone to use a user group that the SIM card owner has agreed upon with the service provider.

Note: When calls are limited to closed user groups, calls may be possible to emergency numbers programmed into your phone (for example, 911). Enter the emergency number and press the **Talk** key. The number appears in the display after you have keyed in the last digit.

Turn on closed user groups

1 From the menus, select **Settings > Security settings > Closed user group > On**.

2 Enter the group number, then select **OK.**

Turn off closed user groups

From the menus, select **Settings > Security settings > Closed user group > Off**.

Call barring password for closed user groups

A closed user group is a network service that specifies the group of people whom you can call and who can call you. For more information, contact your service provider.

• SECURITY LEVELS

The security level determines your access to features when a nonowner SIM card is used. A nonowner SIM card is one (other than the original) that is inserted after you power off the phone. There are three security levels:

Off—Owner and Nonowner cards are treated the same.

Memory—Nonowner cards can access SIM memory. Any changes to the memory setting requires the security code.

The owner card has access to all features, but the security code is required to change a memory setting.

Phone—The security code is required upon power-up.

Use this procedure to set your security level.

1 From the menus, select **Settings > Security settings > Security level**.

After a brief pause, you are prompted to enter the security code. The default code is 12345.

2 Enter the security code and select **OK**.

3 Select **Off**, **Memory**, or **Phone**.

A message appears in the display confirming your selection

• ACCESS CODES

With the following access codes, you can keep your information safe:

- Security code (4–8 digits)
- PIN code and PIN2 code (4–8 digits)
- PUK code and PUK2 code (8 digits)
- Call barring password (4 digits)
- Wallet code (4–10 digits)

Note: Avoid using codes similar to emergency numbers such as 911 to prevent accidental dialing of the emergency number.

Security code

The security code controls access to features such as the security level and is supplied with the phone. The preset code is 12345.

Note: If you enter the wrong security code five times in succession, you will not be able to enter a code for five minutes, even if you power off the phone between incorrect entries.

Once you change the security code from its preset of 12345, keep the new code secret and in a safe place separate from your phone. Use this procedure to change your security code.

1. From the menus, select **Settings > Security settings > Access codes > Change security code**.

   After a brief pause, you are prompted to enter the current security code (default is 12345).

2. Enter the current security code and select **OK**.

   You are prompted to enter the new security code.

3. Enter the new security code (up to 10 characters) and select **OK**.

   You are prompted to reenter the new security code for verification.

4. Enter the new security code again and select **OK**.

   A message appears in the display confirming your security code has been changed.

PIN code

Before you can change your PIN code, you need to enable **PIN code request**. See "PIN code request" on page 35.

1. Select **Menu > Settings > Security settings > Access codes > Change PIN code**.

   After a brief pause, you are prompted to enter the current PIN code.

2. Enter the PIN code and select **OK**.

   You are prompted to enter the new PIN code.

3. Enter the new PIN code and select **OK**.

   You are prompted to reenter the new PIN code for verification.

4 Enter the new PIN code and select **OK**.

A message appears in the display confirming your PIN code has been changed.

PIN2 Code

The PIN2 code is required for features such as Fixed dialing. If you enter an incorrect PIN2 code three times in succession, the PIN2 code is blocked and you will have to enter the PUK2 code.

Note: The original PIN2 code must be obtained from your service provider.

Use this procedure to change your PIN2 code.

1 Select **Menu > Settings > Security settings > Access codes > Change PIN2 code**.

You are prompted to enter the current PIN2 code.

2 Enter the current PIN2 code and select **OK**.

You are prompted to enter the new PIN2 code.

3 Enter the new PIN2 code and select **OK**.

You are asked to verify the new PIN2 code by entering it again.

4 Enter the new PIN2 code and select **OK**.

A message appears in the display confirming you have changed the PIN2 code.

Personal unblocking key (PUK) codes

PUK and PUK2 codes are used to restore blocked PIN and PIN2 codes. Both PUK and PUK2 codes are eight characters in length and cannot be changed. PUK and PUK2 codes must be obtained from your service provider.

If you enter an incorrect PUK or PUK2 code 10 times in succession, **SIM rejected** appears in the display and the SIM card can no longer be used. You must contact your service provider for a new SIM card.

Wallet code

The wallet code is needed to access the wallet services. If you enter a wrong wallet code several times, the wallet application is blocked for five minutes. See "Wallet" on page 126 for more information.

7 Advanced multimedia player

Note: The phone must be switched on to use these functions. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

The advanced multimedia player gives you a wide array of options for handling image, audio, video, and image animation files. There is no menu item for the multimedia player. It is activated automatically whenever you use a function, such as the gallery or the camera, that handles multimedia files.

The multimedia player lets you:

- Send, receive, and save many types of multimedia files (see "Multimedia messages" on page 61).
- Play, pause, mute, and unmute audio files [see "Gallery (Menu 8)" on page 107].
- Set an audio file as your ringing tone [see "Gallery (Menu 8)" on page 107].
- View image files such as photos and clip art [see "Gallery (Menu 8)" on page 107].
- Zoom in on an image file [see "Gallery (Menu 8)" on page 107].
- Sequentially view all image files in a folder as a slide show [see "Gallery (Menu 8)" on page 107].
- Sequentially play all tone files in a folder [see "Gallery (Menu 8)" on page 107].
- Set an image file as your wallpaper (see "Wallpaper" on page 96).
- Adjust contrast in an image file [see "Gallery (Menu 8)" on page 107].
- Edit image files by adding frames, text, and clip art (see "Edit an image" on page 109).
- Play, pause, and restart video and image animation files [see "Gallery (Menu 8)" on page 107].

8 Menu functions

Note: The phone must be switched on to use these functions. Do not switch on the phone when the use of a wireless phone is prohibited or when it may cause interference or danger.

This section describes the following menus on your phone:

- Messages (Menu 1)
- Call log (Menu 2)
- Contacts (Menu 3)
- Profiles (Menu 4)
- Settings (Menu 5)
- Radio (Menu 6)
- Camera (Menu 7)
- Gallery (Menu 8)
- Organizer (Menu 9)
- Games (Menu 10)
- Applications (Menu 11)
- Extras (Menu 12)
- Connectivity (Menu 13)
- Services (Menu 14)

For a list of menu shortcuts, see “Menu shortcuts” on page 19.

Messages (Menu 1)

If you have subscribed to a message service, you can send and receive messages to compatible phones that are also subscribed to a message service. You can also send and receive picture messages, multimedia messages, and e-mail if supported by your network. Also, you can make distribution lists that contain phone numbers and names in your **Contacts**. Standard text messages can be up to 160 characters in length. See "Text entry" on page 31 for more information.

Note: When your phone is dedicated to a call in progress, a Java application (such as a game), or an active browser connection, then the phone cannot receive multimedia messages.

• LINKED MESSAGES

Your phone can send and receive long text messages (up to 450 characters). Text messages that exceed 160 characters are automatically split into multiple messages and sent as a series. The series of messages is linked by the compatible phone when received and displayed as a single SMS message. For this feature to work properly, the receiving phone must also support linked messages.

While receiving linked messages, you can start reading the first part before the phone has received the entire message. While viewing a linked message, you can start reading the first part before the phone has received the entire message. While viewing the message, you may see ***some text missing*** on the display. This is normal, and the message content will be updated as soon as the missing sequence arrives.

If the memory is full, you may have to delete a message from your inbox or outbox before your phone can update the missing text. See "Delete messages" on page 52 for more information.

• BEFORE YOU CAN SEND AND RECEIVE MESSAGES

You will need the following to send and receive messages:

- A messaging service through your service provider
- A message center number, which must be saved to your phone (if your service provider has not done so already). See "Save your message center number" on page 48.

• ICONS

Icons that precede the title of a message indicate the following:

The message has not been read.

The message has been read.

The message which you have composed has not been sent.

The message which you have composed has been sent.

i The message is a delivery report.

The message is a MMS (multimedia message).

• OPTIONS

When you create a text or multimedia message, the following options are available:

Send—Send the message to one recipient.

Sending options—Select **Send to list** to send the message to one of your distribution lists. Select **Send to many** to send the message to one of your fixed calling groups. Select **Sending profile** to send the message to one of your predefined profiles.

Clear text—Erase the text clipboard.

Save message—Select **Archive** to save the message in your archive. Select **Templates** to save the message as one of your predefined templates.

Insert contact—Insert a name from contacts into your message.

Insert number—Insert a number from contacts into your message.

Use template—Insert a predefined template into your message.

Insert picture—Insert a picture from the gallery into your message.

Exit editor—Save the message to your archive automatically and leave the message editor.

Insert word—Enter a word and insert it into your message.

Insert symbol—Insert a special character into your message.

Predictive text—Start the predictive text utility.

When you view a text, picture, or multimedia message, or e-mail, some or all of the following options are available:

Delete—Delete the message you are viewing.

Reply—Reply to the message; you have the option to include the original text in the reply, a template, or empty screen.

Use detail—Extract numbers, e-mail addresses and website addresses from the current message.

Chat—Begin an instant messaging conversation.

Forward—Forward the message to another recipient.

Edit—Edit the message.

Move—Move the message to a folder you specify.

Rename—Rename the message before it is saved to a folder.

Copy to Calendar—Copy text from the beginning of the message to your phone's calendar as a reminder note for the current day.

Message details—View the sender's name and phone number, the message center used, reception date and time.

• DEFAULT MESSAGE TYPE

You can choose the type of message sent by your phone. Types include **Text**, **E-mail**, **Page**, and **Fax**. The default message type is **Text**.

Note: This feature must be supported by your service provider.

1 From the menus, select **Messages > Message settings > Text messages > Sending profile > Default profile > Messages sent as**.

2 Select the message type of your choice.

A message appears in the display confirming your selection.

• FONT SIZE

1 From the menus, select **Messages > Message settings > Other settings > Font size**.

After a brief pause a list of choices appear in the display.

2 Select **Small font** or **Large font**.

A message appears in the display confirming your selection.

• SAVE YOUR MESSAGE CENTER NUMBER

Messages sent by your phone are routed through your service provider's message center. Normally, this number is saved to your phone by your service provider. To save the number manually, do the following:

1 From the menus, select **Messages > Message settings > Text messages > Sending profile > Default profile > Message center number**.

2 If the box in the display is empty or contains an incorrect number, enter the number given by your service provider and select **OK**.

OR

If the box in the display contains the correct number, select **OK**.

A message appears in the display confirming your number is saved.

• DISTRIBUTION LISTS

If you need to send messages frequently to a fixed group of recipients, you can define a distribution list for that purpose. You can save these distribution lists in phone memory. Note that the phone sends the message separately to each recipient in the list. Therefore, sending a message using a distribution list may cost more than sending a message to one recipient.

Create

Make sure that the contacts you want to add to the distribution lists are saved in the phone's internal contact memory.

1 From the menus, select **Messages > Text messages > Distribution lists**.

The names of the available distribution lists are shown.

2 If you have not saved any lists, select **Add**.

OR

If you have previously saved lists, select **Options > Add list**.

3 Enter the name for the list and select **OK**.

4 Select **Options > View list > Add**.

5 Search for a name in contacts and select **OK**.

6 To add more contacts to the list, select **Options > Add contact**, search for a name in contacts, and select **OK**.

View options

1 From the menus, select **Messages > Text messages > Distribution lists**.

2 Scroll to a list and select **Options**.

The following options are available:

View list—View the details or delete the contacts in the selected list.

Add list—Add a new distribution list.

Rename list—Change the name of the selected list.

Clear list—Delete all names and phone numbers from the selected list.

Delete list—Delete the selected distribution list.

View undelivered options

If a message cannot be sent to certain recipients in the distribution list, select **Undelivered > Options**.

The following options are available:

Resend to list—Resend the message to the recipients on the **Undelivered** list.

View list—View the list of recipients to whom the latest message sending failed.

Delete list—Delete the **Undelivered** list.

View message—View the failed message.

• ORGANIZE MESSAGES WITH FOLDERS

Folders

Inbox—Messages are automatically stored in the inbox after they have been read or if you select **Exit** when **Message received** appears on the start screen.

Outbox—Messages that you have created but have not sent are automatically stored in the outbox.

Archive—Store messages that have been read in the **Archive** folder.

Templates—Pictures and prewritten templates are stored in the **Templates** folder. Preloaded templates can be edited and customized.

Save messages to folders

You can save messages to an existing folder or to a folder that you created.

1 Select **Menu > Messages > Text message > Create message**.

After a brief pause, the message entry screen appears in the display.

2 Write your message and select **Options > Save message**.

3 Select either **Archive**, **Templates**, or the name of a folder which you created.

The message is saved.

View saved messages

1 From the menus, select **Messages** > **Text messages** > **Inbox**.

2 Select the folder containing the message you wish to view.

3 Once the folder opens, select the message you wish to view.

Move a message to a folder

1 While viewing the message, select **Options** > **Move**.

2 Select the destination folder.

My folders

Keep your messages organized by creating custom folders and saving some of your messages there.

ADD A FOLDER OF YOUR OWN

1 From the menus, select **Messages** > **Text messages** > **My folders** > **Options** > **Add folder**.

2 Enter a name for the new folder and select **OK**.

The folder is added.

REMOVE A FOLDER

Only folders created in **My folders** can be deleted. The **Inbox**, **Outbox**, **Archive**, and **Template** folders are protected. When you delete a folder, all messages in the folder are also deleted.

1 From the menus, select **Messages** > **Text messages** > **My folders**.

After a brief pause, the folder opens. Any folders that you have created appear in the display.

2 Scroll to the folder you wish to remove and select **Options** > **Delete folder**.

You are asked to confirm the deletion.

3 Select **OK** to delete or **Back** to exit.

• DELETE MESSAGES

If your message memory is full and you have more messages waiting at the network, ✉ blinks in on the start screen. You can do the following to create more space:

- Read some of the unread messages and then delete them.
- Delete messages from some of your folders.

A single message

To delete a single message, you need to open it first.

1 From the menus, select **Messages > Text messages**.

After a brief pause, a list of options appears in the display.

2 Select the folder containing the message you want to delete.

A list of messages, if you have any, appears in the display.

3 Select the message you want to delete.

The message opens.

4 Select **Options > Delete**.

You are asked to confirm the erasure.

5 Select **OK** to delete the message or **Back** to exit.

All messages in a folder

1 From the menus, select **Messages > Text messages > Delete messages**.

After a brief pause, a list of your folders appears in the display.

2 Select the folder containing the messages you want to delete.

You are asked to confirm your erasure.

⚠ **Warning:** If you select **All messages**, it deletes any messages which have been read in *all* of the folders.

3 Select **OK** to empty the folder.

• CHANGE MESSAGE SETTINGS

Text, picture, and e-mail message settings

Note: Service providers may customize the text message settings interface. For more details about text message services, contact your service provider.

1 From the menus, select **Messages > Message Settings > Text messages > Sending profile**.

2 If more than one message profile set is supported by your SIM card, select the set you want to change, then select one of the following:

Message center number—Save the phone number of the message center, which is necessary for sending text messages; obtain this number is from your service provider.

Messages sent via—Select the message type **Text**, **E-mail**, **Page**, or **Fax**.

Message validity—Define how long the network attempts to send your messages before it gives up.

Default recipient number—For text messages, the default number used to send messages.

Delivery reports—Request the network to send delivery reports on your messages.

Use GPRS—Set GPRS as the preferred method of sending text messages.

Reply via same center—Allow the recipient of your message to send you a reply message using your message center (network service).

3 Follow the prompts to change the selected setting.

Overwrite text, picture, and e-mail message settings

When the message memory is full, your phone cannot send or receive any new messages. However, you can set your phone to automatically replace old messages in the **Inbox** and **Outbox** folders when new ones arrive.

1 Select **Menu** > **Messages** > **Message settings** > **Text messages**.

After a brief pause, a list of options appears in the display.

2 Select **Overwriting in sent items** or **Overwriting in inbox**.

3 Select **Allowed** to replace the old messages with new ones in the **Sent items** or **Inbox** folder, respectively.

Multimedia message settings

1 From the menus, select **Messages** > **Message settings** > **Multimedia msgs.**, then select one of the following:

Save sent messages—Save sent multimedia messages to the **Sent items** folder.

Delivery reports—Request the network to send delivery reports on your messages.

Scale image down—Define the image size for the multimedia messages you are writing.

Allow multimedia reception—Choose **Yes**, **No**, or **In home network** for your multimedia service. **In home network** cannot receive multimedia messages outside the home network.

Incoming multimedia messages—Select **Retrieve** to receive multimedia messages, or **Reject** if you do not wish to receive multimedia messages.

Connection settings—Define connection parameters for multimedia data transfer.

Allow advertisements—Enable or disable reception of automatic multimedia advertisements. This setting is not shown if **Allow multimedia reception** is set to **No**.

2 Follow the prompts to change the selected setting.

Receive multimedia connection settings

You may be able to receive multimedia connection settings as a text message from your service provider. For more information, contact your service provider.

• WRITE AND SEND A TEXT MESSAGE

Note: This feature uses shared memory. See "Shared memory" on page 16 for more information.

1 From the menus, select **Messages** > **Text messages** > **Create message**.

Tip: To go quickly to the **Create message** display, press the **Scroll left** key at the start screen.

After a brief pause, the message entry screen appears in the display.

2 Compose a message using the keypad and select **Options** > **Send**.

3 Enter the recipient's phone number, or select **Find** to retrieve a number from contacts, and select **OK**.

Your message is sent.

Note: When sending messages, your device may display the words "Message Sent." This is an indication that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

• READ MESSAGES

When you receive a message, your phone beeps and **Message received** appears in the display as well as the unopened letter icon ( ).

1 Select **Show** to read the message or **Exit** to move it to your inbox.

Note: When you have unopened messages in your inbox, is shown in the upper left corner of the start screen as a reminder.

2 Use the scroll keys (the **Scroll up** key or the **Scroll down** key) to view the whole message if necessary.

Tip: Keep scrolling to view other information, such as the sender number and time the message was sent.

3 Select **Back** to move the message to the Inbox, or select **Options** for other choices, such as **Reply** or **Forward**.

• REPLY TO A MESSAGE

1 While viewing a message, select **Options** > **Reply**.

2 Select a **Start reply with** option:

- **Empty screen**
- **Original text**
- **Template**
- **Yes**
- **No**
- **OK**
- **Thank you**
- **Congratulations**
- **Happy birthday**
- **I love you too**
- **Hugs and kisses**
- **Sorry**
- **Sorry, I'm late**

3 Compose your reply using the keypad, then select **Options** > **Send**.

The reply is sent.

• FORWARD A MESSAGE

1 While viewing a message, select **Options** > **Forward**.

2 Enter the recipient's phone number, or select **Find** to retrieve a number from contacts.

3 Select **OK**.

The message is forwarded.

• PICTURE MESSAGES

Your phone comes with 10 preloaded pictures. You can, however, overwrite any of the 10 pictures that come with your phone. Pictures can be attached to a message and sent using a text message to compatible phones. Picture messages behave the same as text messages, but pictures take up more space than text. Pictures are stored in the **Templates** folder under **Messages > Text messages > Templates**.

Note: You cannot send a picture message using e-mail.

Download pictures

Your phone can download pictures, or receive them from compatible phones using text messaging to use in messages. You can also create pictures and send them to your phone or other compatible phones using Nokia PC Suite.

Note: This function can be used only if it is supported by your service provider. Only phones that offer picture message features can receive and display picture messages. Contact your service provider for details.

Receive a picture message

When you receive a picture message, your phone beeps and **Message received** appears in the display as well the message icon (✉).

VIEW A PICTURE MESSAGE

1 Select **Show** to view the picture message, or select **Exit** to move it to your inbox.

2 If you have more than one picture message, scroll and select the message that you want to view.

Note: When you have unopened picture messages in your inbox, ✉ is shown in the upper left corner of the start screen as a reminder.

3 Use the scroll keys to view the whole picture if necessary.

Tip: Keep scrolling to view other information, such as the sender number and time the message was sent.

4 Once you are finished, select **Back** to move the picture message to the inbox, or select **Options** for other choices, such as **Reply** or **Forward**.

SAVE A PICTURE FROM A PICTURE MESSAGE

1 Select **Options > Save picture**.

2 Enter a title for the picture and select **OK**.

Note: If your templates folder is full of pictures, just scroll to the picture you would like to replace and select **Select**.

Compose and send a picture message

One picture message is equivalent in size to three text messages. When you insert a picture into a message, you will have enough remaining space for about 121 characters in the message. If you try and insert a picture into a message that is almost full of text, a beep sounds and you are prompted to delete some text before proceeding.

1 From the menus, select **Messages > Text messages > Create message**.

After a brief pause, the message edit screen appears in the display.

2 Write a message using the keypad (or enter nothing if you choose to just send a picture), and select **Options**.

Tip: Insert pictures before adding text. You can then check remaining space for text in the upper right corner of the display.

3 Select **Insert picture**.

A list of pictures appears in the display.

4 Scroll to a picture and select **View**.

5 To insert the picture into your message, select **Insert**.

OR

To view another picture, select **Back**, scroll to another picture, and select **View**.

6 To send the picture message, select **Options > Send**.

7 Enter the phone number for your recipient, or select **Find** to retrieve a number from contacts, and select **OK**.

The message is sent.

Note: When sending messages, your device may display the words "Message Sent." This is an indication that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

Preview, change, or delete a picture message

1 After a picture has been inserted into your message, select **Options** at the message edit screen.

2 Select one of the following options:

Preview—Preview the inserted message before sending. Select **Back** to return to the list of options.

Change picture—Go back to the picture list. Scroll to highlight a new picture, select **View** and then select **Insert** to replace the previous picture in your message.

Delete picture—Select **OK** to delete the picture from your message, or select **Back** to return to the list of options.

• E-MAIL

You can send e-mail up to 160 characters in length (including the e-mail address) to anyone with an e-mail address. First, you will need to set up an e-mail profile and modify a few other settings. It takes just a few minutes, and you only need to do this once. See "Text, picture, and e-mail message settings" on page 53.

Note: You cannot insert pictures into e-mail.

Write and send e-mail

Note: See "Chat" on page 66 for ways to write messages faster.

1 From the menus, select **Messages > Text messages > Create e-mail**.

After a brief pause, you are prompted to enter the e-mail address.

2 Enter the e-mail address, or select **Find** to retrieve an e-mail address from contacts, and select **OK**.

3 Enter a subject for the e-mail and select **OK**.

4 Compose your e-mail using the keypad and select **Options**.

Tip: Be sure and leave enough space in the total character count (160) for the e-mail address.

5 Select **Send e-mail**.

Your e-mail is sent.

Note: When sending messages, your device may display the words "Message Sent." This is an indication that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

Receive a message or e-mail

When you receive a text message or e-mail, ***n* Message(s) received** appears in the display, where ***n*** is the number of new messages.

The blinking indicates that the message memory is full. Before you can receive new messages, delete some of your old messages. See "Delete messages" on page 52 for more information.

Select **Show** to view the message now, or **Exit** to view it later.

Read the message later

1 Select **Menu** > **Messages** > **Text messages** > **Inbox**.

2 If more than one message is received, scroll and select the message you want to read.

An unread text message is indicated by in front of the message and an unviewed picture message by .

• MULTIMEDIA MESSAGES

Note: This feature uses shared memory. See "Shared memory" on page 16 for more information.

A multimedia message can contain text, sound, and a picture. Your phone supports multimedia messages that are up to 45 KB. If the maximum size is exceeded, the phone may not be able to receive the message. Depending upon your network, you may receive a message that includes an Internet address where you can go to view the multimedia message. Pictures are scaled to fit the display area of the phone. Your phone has a multimedia message viewer for playing messages and a multimedia inbox for storing saved messages. Once you save the multimedia message, you can use the image as a screen saver or the sound as a ringing tone.

Note: This function can be used only if it is supported by your service provider. For availability and a subscription to the multimedia messaging service, contact your service provider. Only compatible devices can receive and display multimedia messages.

Note: The default setting of the multimedia message service is on.

Multimedia messaging supports the following formats:

- Picture: JPEG, GIF, PNG, OTA-BMP, and WBMP
- Sound: SP-MIDI and monophonic ringing tones

Note: If a received message contains unsupported elements, they may be replaced with the text **Object format not supported**.

Define MMS settings

Before you can use the multimedia message feature, you must specify whether you want to receive messages at all times or only if you are in the service provider's home system.

ALLOW MULTIMEDIA RECEPTION

You can choose to receive all messages or to receive messages only when you are in the service provider's home network.

1 From the menus, select **Messages > Message settings > Multimedia msgs. > Allow multimedia reception**, then select one of the following:

Yes—Allow all incoming messages.

In home system—Allow incoming messages only if you are in the service provider's home system.

2 Select **Incoming multimedia messages > Retrieve**.

BLOCK MULTIMEDIA RECEPTION

From the menus, select **Messages > Message settings > Multimedia msgs. > Allow multimedia reception > No.**

ALLOW OR BLOCK ADVERTISEMENTS

Note: This setting is not available if multimedia reception is blocked.

1 From the menus, select **Messages > Message settings > Multimedia msgs. > Allow advertisements**.

After a brief pause, **Yes** and **No** appear in the display.

2 Select **Yes** to allow advertisements or **No** to block advertisements.

EDIT MULTIMEDIA CONNECTION SETTINGS

Contact your service provider for the settings.

From the menus, select **Messages > Message settings > Multimedia msgs. > Connection settings > Edit active multimedia settings**, then select each of the following in turn and enter the settings provided by the service provider.

Settings' name—Rename the setting to your preference.

Homepage—Enter the homepage where your browser retrieves multimedia messages and select **OK**.

Session mode—Select session mode **Temporary** or **Permanent.**

Data bearer—Select the data bearer (always **GPRS**).

Bearer settings—Set each of the following settings for the data bearer:

- **GPRS access point**—Enter the access point name and select **OK**.

- **IP address**—Enter or change the IP address and select **OK**.
- **Authentication type**—Select either **Normal** or **Secure**.
- **User name**—Edit or enter your user name and select **OK**.
- **Password**—Edit or enter a password and select **OK**.

Note: You may be able to receive multimedia connection settings as a text message from your service provider. For more information, contact your service provider.

OTHER MMS SETTINGS

Other multimedia settings include saving your messages to the **Sent items** folder and editing your connection settings.

From the menus, select **Messages > Message settings > Multimedia msgs.**, then select one of the following:

Save sent messages—**Select Yes to** save sent multimedia messages to the **Sent items** folder, or **No** to discard.

Delivery reports—Select **On** to be informed if the message was delivered, or **Off** to not be informed.

Scale image down—Select **Yes** to scale images to a smaller size when inserted into a message, or **No** to keep the original size.

Allow multimedia reception—Select **Yes**, **No**, or **In home network** for your multimedia service. **In home network** cannot receive multimedia messages outside the home network.

Incoming multimedia messages—Select **Retrieve** to receive multimedia messages, or **Reject** to not receive multimedia messages.

Connection settings—Define browser settings for retrieving multimedia messages. Activate the set where you want to save the connection settings and then edit the settings. See "Edit multimedia connection settings" on page 62.

Allow advertisements—**Select Yes to** enable reception of automatic multimedia advertisements, or **No** to disable.

Write and send a multimedia message

For availability and subscription to the MMS, contact your service provider.

1 From the menus, select **Messages > Multimedia messages > Create message**.

After a brief pause, the message entry screen appears in the display.

2 Enter the text of your message and select **Options**.

3 To insert a picture or a sound clip, select **Insert image** or **Insert sound clip**, respectively.

The list of available folders in the **Gallery** is shown.

4 Open the desired folder, scroll to the picture or sound clip, and select **Options > Insert**.

The indicator in the header of the message indicates that a picture or sound clip has been attached.

Copyright protections may prevent some images, ringing tones, and other content from being copied, modified, transferred, or forwarded.

5 To insert a name from contacts, select **Options > More options > Insert contact**. Scroll to the desired name and select **More options > Insert contact**.

6 To insert a number, select **Options > More options > Insert number**. Enter the number or search for it in contacts, then select **OK**.

7 To view the message before sending it, select **Options > Preview**.

8 To send the message, select **Options**, then select **Send to number**, **Send to e-mail**, or **Send to many**.

Note: If you have attached a picture to the message, you cannot send the message using e-mail.

9 Enter the recipient's number or e-mail address, or search for it in contacts, then select **OK**.

The message is moved to the **Outbox** folder for sending.

Note: It takes more time to send a multimedia message than to send a text message. While the multimedia message is being sent, the animated indicator is displayed and you can use other functions on the phone. If there is an interruption while the message is being sent, the phone tries to resend it a few times. If this fails, the message remains in the **Outbox** folder and you can try to resend it later. Check your **Outbox** folder for unsent messages.

Note: When sending messages, your device may display the words "Message Sent." This is an indication that the message has been sent by your device to the message center number programmed into your device. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

Read and reply to a multimedia message

When a multimedia message is being received, appears (blinking) in the display. Once the message has been fully downloaded, and **Multimedia message received** appear in the display.

1 To view the message immediately, select **Show**. To view the message later, select **Exit**.

2 While viewing the message, select **Options**, then select one of the following:

Delete message—Delete a saved message.

Reply or **Reply to all**—Reply to the message. Select **Options** and then **Send**. The sender's phone number or e-mail is used as the default.

Forward to number—Forward the message to another number.

Forward to e-mail—Forward the message to an e-mail address.

Forward to many—Forward the message to multiple recipients.

Edit—Edit the message. You can only edit messages that you have written.

Message details—View the message subject, size, and class.

Details—View the details of the attached image or sound.

Play—Listen to a sound clip in the message, if one is included.

Save tone—Save a ringing tone, if included, to the gallery.

Save image—Save a picture, if included, to the gallery.

Zoom—Enlarge the picture.

If ✉ blinks and **Multimedia memory full, view waiting msg.** appears in the display, memory for multimedia messages is full. You need to delete some of your old messages. See "Delete messages" on page 52 for more information.

• CHAT

You can have a conversation with another person using this faster text messaging application. You cannot save messages, but you can view them while chatting.

1 From the menus, select **Messages** > **Chat**.

After a brief pause, you are prompted to enter the recipient's phone number.

2 Enter the recipient's number or select **Find** to retrieve a number from contacts, and select **OK**.

3 Enter your Chat name (up to five characters) and select **OK**.

Note: Another way to start a chat: When you have received a message, select **Show** to read it. To start a chat, select **Options** > **Chat**.

4 Enter your chat message using the keypad.

For faster ways to write a message, see "Predictive text input" on page 32.

5 When you are ready to send the message, select **Options** > **Send**.

When you receive a reply, the message from the other person is shown above your original message.

6 To reply to the message, select **OK** and repeat the steps 4 and 5.

7 To end the chat session, select **OK** > **Options** > **Quit**.

8 To view the latest messages of the current chat session, select **Options** > **Chat history**.

The message that you have sent is indicated by < and your nickname. The messages from your chat partner are indicated by > and that sender's nickname.

9 Select **Back** to return to the message you are writing.

10 To edit your nickname, select **Options** > **Chat name**.

• VOICE MESSAGES

If you subscribe to voice mail, your service provider will furnish you with a voice mailbox number. You need to save this number to your phone to use voice mail. When you receive a voice message, your phone lets you know by beeping, displaying a message, or both. If you receive more than one message, your phone shows the number of messages received.

Save your voice mailbox number

Your service provider may have already saved your voice mailbox number to your phone. If so, the number will appear in the display in step 2. Select **OK** to leave the number unchanged.

1 From the menus, select **Messages** > **Voice messages** > **Voice mailbox number**.

After a brief pause, the **Voice mailbox number** screen appears.

2 If the box is empty, enter the voice mailbox area code and number and select **OK**.

The phone confirms that the number has been saved.

Tip: Save yourself the trouble of entering the mailbox codes each time you dial voice mail. See "Automate voice mail" on page 68.

Call and set up your voice mail

1 Once you have saved the voice mailbox number, press and hold the **1** key.

2 When you connect to voice mail and the prerecorded greeting begins, follow the service's automated instructions to setup your voice mail.

Listen to your voice messages

Once you have set up voice mail, you can dial the number in one of four ways:

- Dial the number using the keypad.
- Press and hold the **1** key.
- Select **Listen** if there is a notification message in the display.
- Select **Menu > Messages > Voice messages > Listen to voice messages**. After a brief pause, your phone dials the voice mail number.

Once you connect and the prerecorded greeting begins, follow the automated instructions to listen to your voice messages.

Automate voice mail

You can insert special characters called dialing codes into phone numbers such as voice mail and then save the number to a 1-touch dialing location. Dialing codes instruct the receiving system to pause, wait, bypass, or accept the numbers that follow them in the dialing string.

Note: Each voice mail service can vary. The examples and steps that follow are for clarification. Check with your service provider if you have specific questions about your voice mail service.

WRITE DOWN SOME INFORMATION

You will need this information in "Set up voice mail with dialing codes" on page 69. Be sure to record all of the information correctly.

1 Write down your voice mailbox number.

2 Call and check your voice mail as you normally would.

3 Write down your interaction with the recorded prompts step-by-step. Keep in mind that each voice mail service may vary. However, it should look something like this:

Dial 2145551212, pause 5 seconds, press 1, pause 2 seconds, press 1234, press pound key.

INSERT DIALING CODES

Press the **Star** key repeatedly to cycle through dialing codes. Once the desired code appears in the display, pause briefly and the code is inserted into the dialing string.

For example, press the **Star** key four times to display **w** (wait character). Pause briefly and the wait character is inserted into the dialing string. Available dialing codes are as follows:

***** Bypasses a set of instructions.

+ Precedes an international telephone number.

p Pauses for 2.5 seconds before sending any numbers that follow.

w Wait. Your phone waits for you to press the **Talk** key before it sends any numbers or codes that follow.

SET UP VOICE MAIL WITH DIALING CODES

1 At the start screen, select **Contacts > 1-touch dialing**.

2 Scroll to an empty 1-touch dialing slot and select **Assign**.

3 Enter your voice mailbox number, including the area code.

4 Enter any dialing codes as necessary.

For example, if you pause for 5 seconds after connecting to voice mail, enter **p** twice *after* the voice mailbox number, such as 2145551212**pp**.

5 Enter any remaining pauses, PIN codes, and other information that allows you to listen to your messages, then select **OK**.

6 Enter a name (such as Voice Mail) and select **OK**.

A message appears in the display confirming your 1-touch dialing location has been saved.

7 To dial and listen to your voice mail, select and hold the assigned 1-touch dialing key at the start screen.

No other keypresses should be necessary to connect and listen to your messages.

• INFO MESSAGE SERVICE

With the info message network service, you can receive short text messages from your service provider on various topics, such as weather and traffic conditions. Contact your service provider for more information.

From the menus, select **Messages > Info messages**, then select one of the following:

Info service—Select **On** or **Off** to activate or deactivate the service.

Topics—Options for selecting, adding, editing, and deleting info topics.

Language—Select the language in which info messages are received. The language you select does not affect the language you select under the **Phone settings menu.**

Info topics saved on SIM card—Select one or more info topics to save to your SIM card.

• SERVICE COMMANDS

Use the **Service commands** editor to enter and send service requests (also known as USSD commands) to your service provider. Contact your service provider for information about specific service commands.

1 From the menus, select **Messages > Service commands**.

2 Enter a service request, such as an activation command for a specific network service, and select **Send**.

Call log (Menu 2)

Call log stores information about the last 10 missed, 10 received, or 20 dialed calls. It also adds the total duration of all calls. When the number of calls exceed the maximum, the most recent call replaces the oldest. For Call log to work properly:

- Your service provider must support caller ID, and it must be enabled.
- Your calls cannot be blocked.
- Your phone must be on and within the service area.

• OPTIONS

The following options are available from the call log menu:

Missed calls—Show the phone numbers of unanswered incoming calls.

Received calls—Show the phone numbers of the most recently answered incoming calls.

Dialed numbers—Show the most recently dialed numbers.

Delete recent call lists—Clear phone numbers from recent call lists.

Call timers—View the duration of recent calls and clear the call timers.

Call costs—View and limit the cost of calls, and reset the cost counter.

GPRS data counter—Show the amount of sent and received GPRS data and reset the counters.

GPRS connection timer—Show the duration of GPRS data connections and reset the timers.

• WHILE VIEWING CALLS

Whether you are viewing missed, received, or dialed calls, the menu options are the following:

Call time—Display the date and time of the call.

Send message—Send a message to the number.

View number—Display the number.

Edit number—Edit the number and associate a name with the number.

Save—Enter a name for the number and save it to contacts.

Add to contact—Add the number to an existing entry in contacts, if the number is not associated with a name.

Delete—Clear the number from memory.

Call—Call the number.

• VIEW MISSED CALLS

Missed calls are calls that were never answered. You can check for missed calls in two ways:

Note: The missed calls feature does not function while your phone is off or outside of the service area.

1 If **# missed call** appears in the display, select **List**.

The phone number appears in the display.

2 Select **Options**, then select the desired option from the list.

See "While viewing calls" on page 71.

OR

1 From the menus, select **Call log > Missed calls**.

After a brief pause, a list of missed calls appears in the display (if any exist).

2 Scroll to a name or number and select **Options**, then select the desired option from the list.

See "While viewing calls" on page 71.

• VIEW RECEIVED CALLS

Received calls are calls that have been answered.

1 From the menus, select **Call log > Received calls**.

After a brief pause, a list of received calls appears in the display (if any exist).

2 Scroll to a name or number and select **Options**, then select the desired option from the list.

See "While viewing calls" on page 71.

• VIEW DIALED NUMBERS

You can view dialed numbers in one of two ways:

1 At the start screen, press the **Talk** key.

OR

From the menus, select **Call log > Dialed numbers**.

After a brief pause, your most recently dialed numbers appear.

2 Scroll to a name or number and select **Options**, then select the desired option from the list.

See "While viewing calls" on page 71.

• VIEW CALL TIMES

You can receive up to five calls from the same number and view the time each call occurred. Your clock must be set for this feature to work accurately. See "Set the clock" on page 26 for instructions on setting your clock.

1 While viewing dialed numbers or a missed or received call, select **Options > Call time**.

The time that the last call occurred appears in the display.

2 Press the **Scroll down** key to view other call times from this number.

3 Select **Back** to return to the options list.

• DELETE CALL LISTS

To clear any missed, dialed, or received calls from phone memory:

1 From the menus, select **Call log > Delete recent call lists**.

After a brief pause, **All**, **Missed**, **Received** and **Dialed** appear in the display.

2 Select the call type you want to clear.

• VIEW DURATION OF CALLS

1 From the menus, select **Call log > Call timers.**

2 Select one of the following options:

Duration of last call—Show the duration of the last call received.

Duration of received calls—Show the duration of all received calls.

Duration of dialed calls—Show the duration of all dialed calls.

Duration of all calls—Show the duration of all calls (missed, dialed, and received).

Clear timers—Reset all call timers to zero.

Contacts (Menu 3)

Contacts can save up to 500 names, with multiple numbers and text notes for each name. The amount of numbers and text entries that you can save may vary, depending on their length and the total number of entries in contacts.

• CONTACTS MENU

At the start screen, select **Contacts**, then select one of the following:

Find—Find a name or select from a list.

Add contact—Add a name to contacts.

Delete—Delete a name and its associated numbers.

Copy—Copy entries from phone memory to SIM and vice versa.

Settings—Set memory in use (phone or SIM), change contacts view, and check the memory status of your phone and SIM card.

1-touch dialing—Display the list of 1-touch dialing numbers saved to memory.

Service numbers—Display a list of numbers related to your service provider.

Own numbers—View the numbers (line 1, line 2, data) in use by your SIM card.

Caller groups—View and edit the properties (such as the ringing tone) for any of the caller groups.

• TYPES OF CONTACT INFORMATION

Each contact entry can contain one or more of the following types of information:

- General phone number
- Mobile phone number
- Home phone number
- Work phone number
- Fax number
- E-mail address
- Web address
- Street address
- Note

• SAVE CONTACT INFORMATION

You can save names and numbers to phone memory or to SIM memory.

Quickly save a name and number

1. At the start screen, enter the phone number you wish to save.
2. Select **Options** > **Save**.
3. Enter a name for the number and select **OK**.

   A confirmation message appears in the display indicating your entry has been saved.

Quickly save (only) a number

You can save a phone number as a stand-alone entry in contacts.

1. At the start screen, enter the number you wish to save.

2 Select and hold **Options**.

A message appears in the display confirming your number is saved.

Save an entry using the contacts menu

1 At the start screen, select **Contacts** > **Add contact**.

2 Enter a name and select **OK**.

3 Enter a number and select **OK**.

4 Select **Done** to return to the start screen.

Save multiple numbers and text items per entry

For each entry in phone memory, you can save different types of phone numbers and short text items. (SIM card memory can have only one name and number per entry.) The first number you save for any entry is automatically set as the default, or primary number. It is indicated with a frame around the number type indicator.

1 Make sure that the memory in use is either **Phone** or **Phone and SIM**.

See "Select contacts view and memory" on page 84.

2 At the start screen, press the **Scroll down** key and scroll to the entry to which you wish to add a number or text item.

3 Select **Details** > **Options.**

4 Select **Add number** or **Add detail**, then select the desired number or text type.

See "Types of contact information" on page 76.

5 Enter a number, address, or note, and select **OK**.

6 To change the number or text type, with a contact entry highlighted, select **Options** > **Change type**, then select the desired type.

7 Press the **End** key to return to standby mode.

Save addresses and notes

To save an e-mail address, you will need to add it to an existing entry (name).

1. Find the entry (name) in contacts to which you would like to add an address or note.
2. With the entry highlighted, select **Details > Options > Add detail.**
3. Select **E-mail address**, **Web address**, **Street address**, or **Note**.
4. Enter the text for the note or address and select **OK**.

• CHANGE THE DEFAULT (PRIMARY) NUMBER

1. At the start screen, press the **Scroll down** key, scroll to the entry you want to change, and select **Details**.
2. Scroll to the number you wish to set as default and select **Options > As primary number**.

• SEARCH FOR AN ENTRY IN CONTACTS

1. At the start screen, press the **Scroll down** key to display the contents of contacts.
2. Press the key which corresponds to the first letter of the name for which you are performing a search.
3. Press the **Scroll up** key or the **Scroll down** key to scroll up and down through names and numbers in the list.

   Press the **Left selection** key or the **Right selection** key to move the cursor left or right in the search window at the bottom of the display, if necessary.
4. Select **Details** to view the details of the selected entry.
5. Use the **Scroll up** and **Scroll down** keys to scroll through the details of the entry, if necessary.

• MAKE A CALL FROM CONTACTS

At the start screen, press the **Scroll down** key, scroll to the entry for the person you want to call, and press the **Talk** key.

The phone dials the primary number for the contact.

• ADD AN IMAGE TO A NAME OR NUMBER

1. At the start screen, press the **Scroll down** key.
2. Scroll to the name or number to which you want to add an image, and select **Details > Options > Add image**.

   The display shows the list of folders in the **Gallery**.
3. Scroll to a folder that contains images and select **Open**.
4. Scroll to the desired image and select **Options > Save to contacts**.

   A copy of the image is added to the contact.

Note: You can use the phone to take a photo and attach it to the contact. See "Take a photo" on page 104 for more information.

• EDIT A CONTACT ENTRY

1. At the start screen, press the **Scroll down** key.
2. Scroll to the entry that you want to edit and select **Details**.
3. Scroll to the item you want to edit, and select **Options**.

   The list of available options varies according to the type of item selected.
4. Select an option and follow the prompts to edit the item.

• DELETE NAMES AND NUMBERS

1. At the start screen, select **Contacts** > **Delete**.
2. To delete individual names and numbers, select **One by one**.
3. Scroll to the entry you wish to delete, select **Delete**, and select **OK** to confirm the deletion.
4. To delete the entire contents of contacts, select **Delete all**, then select either **Phone** or **SIM card**.

5 Select **Delete**, then select **OK** to confirm.

You are asked to enter the security code.

6 Enter the security code and select **OK**.

• COPY CONTACT ENTRIES

1 At the start screen, select **Contacts** > **Copy**.

2 Select either **From phone to SIM card** or **From SIM card to phone**.

The following options appear in the display:

One by one—Selects and copies entries one by one.

All—Copies all entries from the SIM card or phone.

Primary numbers—Copies only primary numbers. This appears only if you selected **From phone to SIM card**.

3 Select the copy method of your choice.

- If you selected **One by one**, go to step 4.
- If you selected **All** or **Primary numbers**, go to step 6.

4 Scroll to the entry you wish to copy and select **Copy**.

5 Select either **Keep original** or **Move original**.

Warning: Select **Keep original** if you are unsure of which copy method to use. This ensures original entries are merely copied to the new location. **Move original** deletes files after copying.

The entry is copied and you are returned to the list of contacts entries.

6 If you selected **All** or **Primary numbers** in step 3, select **Keep original** or **Move original**.

7 Select **OK** to confirm your choice.

All entries are copied to the selected destination.

8 Select **Back** to return to the list of contacts entries, or press the **End** key to return to the start screen.

• BUSINESS CARDS

You can send and receive an entry in contacts using IR or text message, if supported by your service provider.

Receive a business card using IR

1 From the menus, select **Connectivity > Infrared** to ensure IR is activated.

When you receive the business card, your phone beeps and a message appears in the display.

2 Select **Save** to save the business card in phone memory, or select **Exit** and then **OK** to discard the business card.

Send a business card

You can send a business card using IR or as a text message to a compatible phone or other handheld device.

1 Highlight an entry from contacts that you wish to send and select **Details > Options > Send bus. card**.

2 To send the business card using IR, make sure the receiving device is set up to receive data using its IR port and select **Via infrared**.

OR

To send the business card as a message, select **Via text message**.

3 Select **Primary number** or **All details**.

If you are sending the business card using IR, the phone makes the IR connection and sends the business card. If you are sending the business card as a text message, continue to the next step.

4 Enter the number for your recipient or select **Find** to retrieve a number from contacts.

5 Select **OK**.

The business card is sent.

• 1-TOUCH DIALING

You can associate any entry in contacts with a key from **2**–**9**, then dial those entries by pressing and holding the assigned key.

Assign a key

1. At the start screen, select **Contacts > 1-touch dialing**.
2. Scroll to any empty slot and select **Assign**.
3. Enter the number (including the area code) and select **OK**, or select **Find** to retrieve a number from contacts.
4. Enter a name for the number and select **OK**.

   If 1-touch dialing is off, the phone displays a prompt asking if you would like to turn 1-touch dialing on.
5. Select **Yes** to activate 1-touch dialing.

   The entry appears in the slot you have assigned.

Make a call

Press and hold the key to which an entry has been assigned. Your phone dials the entry assigned to the key.

Change numbers

1. At the start screen, select **Contacts > 1-touch dialing**.
2. Scroll to the 1-touch dialing entry you wish to change and select **Options > Change**.
3. Enter the new number, or select **Find** to retrieve a number from contacts, and select **OK**.
4. Enter a name for the entry and select **OK**.

Delete numbers

1. At the start screen, select **Contacts > 1-touch dialing**.
2. Scroll to the 1-touch dialing location you wish to delete and select **Options > Delete**.

   You are asked to confirm the deletion.
3. Select **OK** to delete the key assignment.

• VIEW INFO, SERVICE, AND OWN NUMBERS

Your service provider may have saved the operating number of your phone, as well as various information and service numbers to your SIM card.

Note: This feature may not be supported by your SIM card. Contact your service provider for more information.

1 At the start screen, select **Contacts**, then select one of the following number types:

Info numbers—Contact your service provider to obtain information.

Service numbers—Contact your service provider to obtain service.

Own numbers—Display the operating number, or numbers which have been assigned to your phone by your service provider.

2 To view details of any of the number types in the previous table, select **Details** when the number type appears in the display.

• CALLER GROUPS

You can add contacts entries to any of five caller groups, and then assign a unique ringing tone or graphic to that group. This enables you to identify callers from the group by their unique ringing tone or graphic. A caller group can be as small as one person or as large as the contacts list. You can rename caller groups to suit your preference.

Set caller group options

1 At the start screen, select **Contacts** > **Caller groups**.

The caller groups available are **Family**, **VIP**, **Friends**, **Business**, and **Other**.

2 Select a caller group to display the following caller group options:

Rename group—Rename the group to your preference.

Group ringing tone—Set the ringing tone for the group.

Group logo—Turn the graphic for the caller group on or off.

Group members—Add or remove members from the caller group.

3 Select a caller group option and follow the prompts to set the option according to your preference.

Set up a caller group

1 At the start screen, press the **Scroll down** key to display a list of entries in contacts.

Tip: Perform a "quick find" when contacts entries are displayed by entering the first letter of a name. appears at the bottom of the display to indicate you are performing a search.

2 Scroll to a name you want to add to a caller group and select **Details > Options > Caller groups**.

3 Select the caller group to which you want to add the name.

A confirmation message appears in the display.

• SELECT CONTACTS VIEW AND MEMORY

At the start screen, select **Contacts > Settings**, then select one of the following options:

Memory in use—Select the memory you wish to use. Options are **Phone**, **SIM card**, or **Phone and SIM** combined. With **Phone and SIM** selected, names and numbers are saved to phone memory but entries saved to both memories appear in the display.

Contacts view—Select the **Name list**, **Name and number**, or **Name only** view.

Memory status—View the amount of phone or SIM memory used and available.

Profiles (Menu 4)

Profiles define how your phone reacts when you receive a call or a message, how your keypad sounds when you press a key, and more. Ringing options, keypad tones, and other settings for each of the five available profiles can be left at their default setting, or customized to suit your needs. Select and customize the most suitable profile for your situation, such as when you are in a meeting or outdoors. The profiles available are **Normal**, **Silent**, **Meeting**, **Outdoor**, and **Pager**.

Note: Profiles are also available for enhancements such as a headset and car kit. See "Enhancement settings" on page 99 for more information about enhancement profiles.

• SELECT A PROFILE

1 At the start screen, select **the Profiles menu**.

After a brief pause, the list of profiles appears in the display.

2 Select a profile from the list.

• CUSTOMIZE A PROFILE

You can customize any of the profiles a variety of ways.

1 At the start screen, select **the Profiles menu**.

After a brief pause, the list of profiles appears in the display.

2 Select the profile you want to customize, select **Customize**, then select one of the following:

Ringing options—Select the ringing tone style.

Ringing tone—Select the ringing tone for incoming calls.

Ringing volume—Set the volume of your ringing tone.

Vibrating alert—Turn the vibrating alert on or off.

Message alert tone—Select the tone for received messages.

Keypad tones—Set the volume of your keypad tones (or turn them off).

Warning tones—Turn warning and confirmation tones on or off.

Alert for—Define which caller groups the selected profile will accept or decline. See "Caller groups" on page 83 for more information.

Profile name—Rename the profile (up to 16 characters). You cannot rename the Normal profile.

• SET A TIMED PROFILE

Timed profiles can be used to prevent missed calls. For example, suppose you attend an event that requires your phone be set to **Silent** before the event starts, but you forget to return it to **Normal** until long after the event. During this time, you have missed several calls because the ringing tone was silent. A timed profile can prevent this by automatically returning your phone to the default profile at a time you specify.

Note: Timed profiles can be set up to 24 hours in advance.

1. At the start screen, select the **Profiles** menu.

   After a brief pause, the list of profiles appears in the display.

2. Select a profile, then select **Timed**.

3. Enter the time for the profile to expire and select **OK**.

   The profile you have set for expiration is now active and appears in the start screen along with a small clock icon.

Settings (Menu 5)

Use this menu to set or change your personal shortcuts, time and date settings, call settings, phone settings, display settings, tone settings, enhancement settings, security settings, and to restore factory settings.

• OVER THE AIR (OTA) SETTINGS SERVICE

To use browsers, MMS, GPRS, and other wireless services, you must have the proper settings on your phone. If you receive the settings directly as an OTA message, then you need only to save the settings on your phone. For more information about the availability of the settings, contact your service provider or nearest authorized Nokia dealer.

• PERSONAL SHORTCUTS

You can change the function of the **Right selection** key so that your most frequently used functions can be quickly accessed from the start screen. This list of functions is called the **Go to** menu. You can also select an operator-specific name for the **Right selection** key to be displayed in the start screen.

Choose functions

1 From the menus, select **Settings > Right selection key settings > Select Go to options**.

The list of functions is displayed. The list includes phone functions and bookmarks for Internet sites that you entered into the bookmark list. See “Bookmarks” on page 142.

2 Scroll to the desired function from the list, then select **Mark**.

A mark appears in the box next to the selected function indicating that you have selected the function. Select **Unmark** to remove a function from the list.

3 Repeat the previous step to select or remove as many functions as you wish.

4 Select **Done** when you have added all desired functions.

5 When **Save changes?** appears in the display, select **Yes**.

Organize functions

1 From the menus, select **Settings > Right selection key settings > Organize Go to options**.

The list of functions is displayed.

2 Select the function you wish to rearrange, then select **Move**.

3 Select **Move up**, **Move down**, **Move to top**, or **Move to bottom** from the list of choices.

The list of right selection key functions is displayed in the new order.

4 Select **Done**.

A confirmation message appears.

5 Select **Yes**.

The changes are saved.

Choose a name

1 From the menus, select **Settings > Right selection key settings > Right selection key**.

2 Select either an operator-specific name (if available), **Go to**, or **Contacts**.

The selected name will appear over the **Right selection** key in the start screen.

If you selected **Contacts**, the **Right selection** key takes you directly to contacts. If you selected **Go to**, the **Right selection** key takes you to the list of functions you selected for the **Go to** menu. If you selected an operator-specific name, the **Right selection** key takes you to a list of items specified by your operator.

• TIME AND DATE SETTINGS

Set the clock

1 From the menus, select **Settings > Time and date settings > Clock > Set the time**.

2 Enter the time in *hh:mm* format, and select **OK**.

3 Select **am** or **pm**.

Show or hide the clock

You may display or not display the clock on the start screen.

1 From the menus, select **Settings > Time and date settings > Clock**.

2 Select **Hide clock** or **Show clock**.

If the clock was previously hidden (not shown on the display), it will now appear in the upper right corner of the start screen.

If the clock was previously shown in the display, it will now be hidden from view.

Change the time format

You can set the time format for am/pm or 24-hour format (military time).

1 At the start screen, select **Menu > Settings > Time and date settings > Clock > Time format**.

2 Select **24-hour** or **am/pm**.

A message appears in the display confirming your selection.

Set the date

1 From the menus, select **Settings > Time and date settings > Date > Set the date**.

2 Enter the date and select **OK**.

The date is set.

Set or change the date format

1 From the menus, select **Settings > Time and date settings > Date > Date separator**.

2 Select the separator of your choice (period, slash, or hyphen).

A message appears in the display confirming your selection.

3 Select **Date > Date format**.

4 Select the format of your choice.

A message appears in the display confirming your selection.

• CALL SETTINGS

Call forwarding

Call forwarding tells your network to redirect incoming calls to another number.

Note: Call forwarding is network-dependent and may not work the same in all networks. Contact your service provider for availability.

ACTIVATE CALL FORWARDING

Note: This is a network-dependent feature. Some options listed in the following table may not appear in the display. Contact your service provider for more information.

1 From the menus, select **Settings > Call settings > Call forwarding**, then select one of the following:

Forward all voice calls—Forward all calls to the number you specify.

Forward if busy—Forward incoming calls when you are in a call.

Forward if not answered—Forward incoming calls to another number if you are unable to answer. You can also set a delay before forwarding takes place.

Forward if out of reach—Forward incoming calls when your phone is off.

Forward when not able to take calls—Forward calls that are not picked up. You can also set a delay before forwarding takes place.

Forward all fax calls—Forward all fax calls to a fax mailbox.

Forward all data calls—Forward all data calls to a data mailbox.

Cancel all call forwarding—Cancel any call forwarding options you may have set.

2 Select **Activate**.

3 Select the destination to which your calls will be forwarded.

4 Enter the number to which your calls, data, or other information will be forwarded and select **OK**.

Your phone calls the network to activate the feature you have requested. The network sends a confirmation note when the feature has been activated successfully.

CANCEL CALL FORWARDING
From the menus, select **Settings > Call settings > Call forwarding > Cancel all call forwarding**.

Note: Cancel all call forwarding may affect your ability to receive voice mail messages. Contact your service provider for specific details.

Anykey answer

Anykey answer allows you to answer an incoming call by briefly pressing any key except the power key, the **Left selection** key, the **Right selection** key, and the **End** key.

1 From the menus, select **Settings > Call settings > Anykey answer**.

2 Select **On** to activate or **Off** to deactivate.

Automatic redial

Occasionally, your network may experience heavy traffic, resulting in a "fast" busy signal when you dial. With automatic redial activated, your phone redials the number up to 10 times, and notifies you once the network is available.

1 From the menus, select **Settings > Call settings > Automatic redia**l.

2 Select **On** to activate or **Off** to deactivate.

1-touch dialing

You can turn the 1-touch dialing feature on and off. For more information, see "1-touch dialing" on page 81.

1 From the menus, select **Settings > Call settings > 1-touch dialing**.

2 Select **On** to activate or **Off** to deactivate.

Call waiting

If supported by your service provider, call waiting notifies you of an incoming call even while you are in a call. You can then accept, reject, or ignore the incoming call.

ACTIVATE OR DEACTIVATE CALL WAITING

1 From the menus, select **Settings > Call settings > Call waiting**.

2 Select **Activate** or **Cancel**.

USE CALL WAITING

1 During a call, press the **Talk** key to answer the waiting call.

The first call is put on hold.

2 Press the **End** key to end the active call.

Summary after call

You can display the time spent on a call when you hang up.

1 From the menus, select **Settings > Call settings > Summary after call**.

2 Select **On** to activate or **Off** to deactivate.

Send my caller identity

You can prevent your number from being displayed on the receiving party's caller ID. This feature is network-dependent and works on a call-by-call basis. Contact your service provider for more information.

1 From the menus, select **Settings > Call settings > Send my caller identity**.

2 Select **Default**, **Yes**, or **No**.

A message appears in the display confirming your selection.

Select a line for outgoing calls

Note: This is a network-dependent feature. Check with your service provider for availability and a description of the feature.

1 From the menus, select **Settings** > **Call settings** > **Line for outgoing calls**.

After a brief pause, **Line 1** and **Line 2** appear in the display.

Note: If you select **Line 2** but have not subscribed to this network service, you will not be able to place calls. However, calls on both lines can be answered regardless of the selected line.

2 Select **Line 1** or **Line 2**.

A message appears in the display confirming your selection.

Tip: If supported by your SIM card, you can prevent the line selection by using the **Lock** option.

• PHONE SETTINGS

Set the display language

1 From the menus, select **Settings** > **Phone settings** > **Language**.

After a brief pause, **Automatic**, **English**, **Português**, **Español**, and **Français** appear in the display.

2 Select the language of your choice.

View the phone memory

1 From the menus, select **Settings** > **Phone settings** > **Memory status**.

After a brief pause, **Free memory**, **Used memory**, **Contacts**, **Text messages**, **Multimedia msgs.**, **Gallery**, **Organizer**, and **Applications** appear in the display.

2 Scroll through the list to view the memory associated with each item.

Note: For more information, see "Shared memory" on page 16.

Activate or deactivate automatic Keyguard

Note: When Keyguard is on, it may be possible to dial emergency numbers programmed into your phone (for example, 911). Enter the emergency number and press the **Talk** key. The number is displayed only after you have keyed in its last digit.

You can set the keypad of your phone to lock automatically after a preset time delay (from 10 seconds to 60 minutes). When the preset delay expires, the keypad locks automatically.

1 From the menus, select **Settings > Phone settings > Automatic keyguard**.

After a brief pause, **On** and **Off** appear in the display.

2 Select **On** (or **Off** to deactivate).

3 If you selected **On**, **Set delay** appears in the display.

4 Enter the delay (in *mm:ss* format) and select **OK**.

Activate or deactivate cell info display

Note: Cell info display is network-dependent and may not work the same in all networks. Contact your service provider for availability.

When this function is selected, your phone will indicate when it is used in a system cell based on Micro Cellular Network technology. MCN technology increases the capacity of wireless networks in urban areas. The setting will remain in effect even if the SIM card is changed or the phone is switched off.

1 From the menus, select **Settings > Phone settings > Cell info display**.

After a brief pause, **On** and **Off** appear in the display.

2 Select **On** to activate or **Off** to deactivate.

A message appears in the display confirming your selection.

Note: If the **GPRS connection** is set to **Always online**, info messages may not be received. In that case, set the **GPRS connection** to **When needed**, see "GPRS, HSCSD, CSD" on page 135 for more information.

Write a welcome note

You can write a welcome note which shows up briefly on your display whenever you power up your phone.

Predictive text input cannot be used for entering welcome note text.

1 From the menus, select **Settings > Phone settings > Welcome note**.

After a brief pause, the message edit screen appears in the display awaiting text input.

2 Enter a note (up to 44 characters).

Press the **Star** key to display and select from available special characters. For more information on special characters, see "Enter punctuation and special characters" on page 34.

3 When you are finished, select **Options > Save**.

Set up system selection

You may be able to manually search for another network which has a roaming agreement with your home service provider.

1 From the menus, select **Settings > Phone settings > System selection**.

2 Select one of the following options.

Automatic—Your phone defaults to those settings which have been preset by your service provider.

Manual—Your phone searches for a network which has a roaming agreement with your service provider.

Note: If **No system access** appears in the display, you will need to switch to **Automatic** mode, or insert another SIM card into the phone.

Confirm SIM service actions

This option allows you to request notification when your service provider makes changes to SIM-related services (such as activating GPRS service).

1 From the menus, select **Settings > Phone settings > Confirm SIM service actions**.

2 Select **Yes** to request notification, or **No** to prevent notification.

A message appears in the display confirming your selection.

Activate or deactivate help text

Your phone displays brief descriptions for most menu items. When you arrive at a feature or menu, pause for about 15 seconds. Use the scroll keys to page through the full help text, if necessary.

The default setting for Help text is On. However, you can turn help text on or off by doing the following from the start screen.

1 From the menus, select **Settings > Phone settings > Help text activation**.

2 Select **On** to activate or **Off** to deactivate.

A message appears in the display confirming your selection.

Activate or deactivate start-up tone

You can set your phone to play (or not to play) a start-up tone when the phone is switched on.

1 From the menus, select **Settings > Phone settings > Start-up tone**.

2 Select **On** to activate or **Off** to deactivate.

A message appears in the display confirming your selection.

• DISPLAY SETTINGS

Wallpaper

You can set your phone to display a background picture (wallpaper) on the start screen. Some pictures are presaved in the **Gallery** menu. You can also take pictures with the built-in camera, receive pictures using multimedia messaging, download them from browser pages or transfer them with PC Suite from your PC and then save them in the **Gallery**. Your phone supports JPEG, GIF, BMP, PNG, and WBMP formats.

SELECT

1 From the menus, select **Settings > Display settings > Wallpaper > Change image**.

2 Scroll to a folder that contains images and select **Open**.

3 Scroll to the image of your choice and select **Options > Set as wallpaper**.

4 If **Replace current wallpaper?** appears in the display, select **OK**.

A message appears in the display confirming your selection.

ACTIVATE OR DEACTIVATE

1 From the menus, select **Settings > Display settings > Wallpaper**.

2 Select **On** to activate or **Off** to deactivate.

Select color scheme

You can change the color of some display components in your phone, such as indicators and signal bars.

1 From the menus, select **Settings > Display settings > Color Schemes**.

After a brief pause, a list of color schemes appears in the display.

2 Select the color scheme of your choice.

A message appears in the display confirming your selection.

Select menu view

You can select either the **List** interface or the **Grid** interface.

1 From the menus, select **Settings > Display settings > Menu view.**

2 Select either **List** or **Grid**.

Show or hide operator logo

Note: This feature is network-dependent. Contact your service provider for more information.

You can choose whether the display shows the operator logo when the phone is in standby mode.

1 From the menus, select **Settings > Display settings > Operator logo**.

2 Select **On** to show the logo, or **Off** to hide the logo.

A message appears in the display confirming your selection.

Set screen saver timeout

The screen saver is activated when no function of the phone is used after a preset period of time. Press any key to deactivate the screen saver. The screen saver is also deactivated when the phone is out of the network coverage area.

You can set your phone to display a screen saver after a preset time or after a custom time (up to 60 minutes) of your choosing.

1 From the menus, select **Settings** > **Display settings** > **Screen saver timeout**.

2 Select **2 minutes** or **5 minutes**.

OR

If you want to set a custom time (up to 60 minutes), select **Other**, then enter the custom time and select **OK**.

A message appears in the display confirming your selection.

Change display brightness

You can change the brightness of the display.

1 From the menus, select **Settings** > **Display settings** > **Display brightness**.

After a brief pause, a bar chart appears in the display indicating the current brightness level.

2 Use the **Scroll left** and **Scroll right** keys or the side volume keys to adjust the contrast level to your preference.

3 Select **OK** to accept your settings.

• TONE SETTINGS

You can adjust the ringing volume, keypad tones, and more for the active profile. See "Customize a profile" on page 85.

• ENHANCEMENT SETTINGS

The **Enhancement settings** menu is shown only if the phone is or has been connected to one of the compatible enhancements such as the headset or music stand.

Each compatible enhancement appears in the **Enhancement settings** menu only after it has been connected to the phone. Once an enhancement has been connected, it always appears in the menu even if it is not currently connected.

1 From the menus, select **Settings > Enhancement settings**.

2 Select either **Headset**, **Handsfree**, **Loopset**, **TTY**, **Music stand**, or **Charger**.

A list of options appears in the display.

3 Select the option of your choice and follow the prompts.

Headset options

Default profile—Choose the profile you wish to be automatically activated when a headset is connected.

Automatic answer—Calls are answered automatically after one ring when a headset is connected. Select **On** or **Off.**

Handsfree options

Handsfree options are available when the phone is connected to a car kit.

Default profile—Choose the profile you wish to use when your phone is connected to a car kit.

Automatic answer—Calls are answered automatically after one ring when a car kit is connected.Select **On** or **Off**.

Lights—Choose to keep the phone lights always on, or to shut off automatically after several seconds. Select **On** or **Automatic**.

Ignition sense—When the phone is connected to the full car kit, prevents the phone from draining the car battery when the car ignition is off. Select **Ignition on** to automatically switch off the phone approximately 20 seconds after the car ignition is turned off. Select **Ignition off** to leave the phone on when the car ignition is turned off.

Loopset options

Use loopset—Enable use of the LPS-4 mobile inductive loopset. Select **Yes** or **No**.

Default profile—Choose the profile you wish to be automatically activated when a loopset is connected.

Automatic answer—Calls are answered automatically after one ring when a loopset is connected. Select **On** or **Off**.

TTY options

Use TTY—Activates the TTY feature. Select **Yes** to activate TTY or **No** to deactivate.

Music stand options

Default profile—Choose the profile you wish to be automatically activated when your phone is connected to the music stand.

Automatic answer—Calls are answered automatically after one ring when the phone is connected. Select **On** or **Off**.

Lights—Choose to keep the phone lights always on, or to shut off automatically after several seconds. Select **On** or **Automatic**.

Charger options

Default profile—Choose the profile you wish to be automatically activated when your phone is connected to the charger.

Lights—Choose to keep the phone lights always on, or to shut off automatically after several seconds. Select **On** or **Automatic**.

• SECURITY SETTINGS

For information about security features, see "Phone security" on page 35.

• RESTORE FACTORY SETTINGS

You can reset some of the menu settings to their original values.

1 From the menus, select **Settings** > **Restore factory settings**.

After a brief pause, you are prompted to enter the security code.

2 Enter the security code (the default is 12345) and select **OK**.

A message appears in the display confirming that original settings have been restored.

Note: Data that you have entered or downloaded is not deleted. For example, names and numbers in contacts are not affected.

Radio (Menu 6)

Your phone has an FM radio that also functions as an alarm clock radio. You can listen to the FM radio on your phone through the handsfree speaker or with a HDB-4 boom headset. For FM stereo, connect a DT-1 music stand or HDS-3 stereo headset to the connector on the bottom of the phone.

The leads of the headset function as the antenna, so it must be connected. Allow it to hang freely.

The quality of a radio broadcast depends on coverage of the radio station in that particular area.

• TURN THE RADIO ON AND OFF

1 Attach an audio enhancement to the phone.

2 From the menus, select **Radio**.

3 To turn off the radio, press and hold the **End** key.

• USE THE RADIO

Note: When you place or receive a call, the radio automatically mutes. Once the call is ended, the radio switches back on.

With the radio on, select **Options**, then select one of the following:

Turn off—Turn off the radio.

Save channel—Save the current station to one of 20 locations.

Automatic tuning—Briefly press a scroll key to start the channel search up or down. Select OK when a channel is found.

Manual tuning—Press the **Scroll up** key or the **Scroll down** key to search in increments of 0.1 MHz.

Set frequency—Manually enter the frequency of a known radio station.

Delete channel—Delete a saved channel.

Rename—Enter a new name for the saved channel and select **OK**.

Loudspeaker—Listen to the radio through the speakerphone.

Mono output/Stereo output—Listen to the radio in monaural mode (default) or in stereo. Stereo output is available through a stereo enhancement.

Tip: To set the radio frequency, press the **Star** key. To tune the radio manually, press the **Pound** key.

Note: When an application using a GPRS connection is sending or receiving data, it may interfere with the radio.

• SAVE A RADIO CHANNEL

You can save a preset station to any one of 20 locations in memory, and then tune to that station by pressing the **Scroll up** key or the **Scroll down** key with the radio on.

1. With the radio on, press and hold the **Scroll up** key or the **Scroll down** key to start the channel search.

   Searching stops when a channel is found.

2. To save the channel, select **Options** > **Save channel**.
3. Enter a name for the channel and select **OK**.
4. Select an **(empty)** location to save the channel.

Tip: To save an FM station quickly to 1–9 memory locations, press and hold the corresponding number key while the radio is playing. Then, enter the name of the channel and select **OK**.

Camera (Menu 7)

In this menu you can take photos with the built-in camera and adjust its settings. The camera lens is on the back of the phone, and the color display of the phone works as a viewfinder. The camera produces JPEG images. The camera self-timer has a 10-second delay. After you have taken a picture, you can attach it to a multimedia message and send it with MMS, save it as wallpaper in the standby mode, save it in a compatible PC using Nokia PC Suite software, and upload it to a web address with the content image uploader. When you attach a picture to an entry in your list of contacts, the picture is displayed when your contact calls you.

Note: This feature uses shared memory. See "Shared memory" on page 16 for more information.

If there is not enough memory to take a new photo, you need to free some by deleting old photos or other files in the gallery.

When using the features in this device, obey all laws and respect privacy and legitimate rights of others.

• TAKE A PHOTO

1 From the menus, select **Camera**, then select one of the following options:

Standard photo—Lets you take a photo in landscape orientation under normal lighting conditions.

Portrait photo—Lets you take a photo in portrait orientation that can be added to a name/phone number saved in contacts.

Night mode—Lets you take a photo in landscape orientation in dim lighting.

Tip: To open the camera viewfinder quickly with standard photo view, press the **Scroll up** key at the start screen.

2 The live image appears on the display, and you can use the display as a viewfinder.

3 To take a photo, select **Capture**.

When taking a photo, a shutter sound is heard. The phone saves the photo in the **Photos** folder of the **Gallery** menu. The saved photo is shown on the display.

4 Select **Back** to take another photo.

OR

Select **Options** and select one of the following:

Zoom—Display a zoomed-in version of the photo.

Delete—Delete the selected photo.

Send—Send the selected photo.

Rename—Rename the selected photo.

Change mode—Select either **Standard photo**, **Portrait photo**, or **Night mode**.

Open Gallery—Display the **Photos** folder in the **Gallery**.

Set contrast—Increase or decrease contrast of the selected photo using the **Scroll right** and **Scroll left** keys.

Set as wallpaper—Set the photo as wallpaper.

Details—View details of the photo, such as the name, time and date the photo was taken.

Note: When a photo is zoomed, the photo is not stored permanently in the zoomed size. You cannot edit or send a zoomed photo. Select **Back** to display the image in normal size.

• SELF-TIMER

1 From the menus, select **Camera > Self-timer**.

2 Select either **Standard photo**, **Portrait photo**, or **Night mode**.

3 Select **Start**.

After the timeout, the camera takes the photo and saves it in the **Gallery** menu.

While the self-timer is running, a beeping sound is heard.

• SETTINGS

You can select the level of image quality, turn camera sounds on and off, and define a default title to be used when you save a photo.

From the menus, select **Camera > Settings**, then select one of the following:

Image quality—Define file compression when saving the image. Select **High**, **Normal**, or **Basic**. **High** has the least file compression and provides the best image quality, but takes more memory.

Camera sounds—Set the shutter sound and the self timer tone to **On** or **Off**.

Default title—Define the title that will be used when saving a photo. If you select **Automatic**, the default title will be used, or if you select **My title**, you can enter or edit a new title.

Gallery (Menu 8)

You can save pictures and ringing tones to folders in the gallery, or create folders of your own and save them there. You can download images and tones using MMS, web sites, or Nokia PC Suite.

• FOLDERS

1 At the start screen, select **Menu 8** (**Gallery**).

2 Select one of the following options.

View folders—Display the folders in the gallery menu.

Add folder—Create a new folder.

Delete folder—Delete a folder you have created.

Rename folder—Rename a folder you have created.

Gallery downloads—Download more images and tones. Select **Image downloads** or **Tone downloads**, then select a site. Selecting **More bookmarks** displays the list of bookmarks in the **Services** menu.

When you select **Gallery downloads**, the phone tries to connect to the Internet using your browser and the currently active set of gallery downloads. If the connection fails, you may need to activate another set or change the current settings. See "Set up for browsing" on page 139 for more information.

• FOLDER ITEMS

1 From the menus, select **Gallery > View folders**.

A list of folders appears in the display.

2 Scroll to a folder and select **Open**.

A list of images or tones appears in the display.

3 Scroll to an image or tone, then select **Options**.

Depending on the type of file, some of the following options appear:

Play—Play a multimedia file.

Pause—Pause a multimedia file that is playing.

Zoom—Display a zoomed-in version of the image. Use the scroll keys to move around in the image.

Open—Open the selected file.

Delete—Delete the selected file.

Send—Send the selected file.

Note: The **Send** option may not be available if the selected file (either image or sound) is copyrighted.

Edit image—Start the image editor.

Move—Move the file to another folder.

Rename—Rename the selected file.

Mute audio—Mute a sound file.

Unmute audio—Unmute a muted sound file.

Set contrast—Adjust the contrast in the image.

Set as wallpaper—Set the image as wallpaper.

Set as ring tone—Use the tone as the ringing tone in the current profile.

Details—View details of the file, such as the name, time and date the file was created.

Sort—Sort the files according to date, type, name, or size.

Delete all—Delete all items in the current Gallery folder.

View in sequence—View all of the images in the folder sequentially as a slide show, or listen to each of the tones in sequence.

• EDIT AN IMAGE

1. From the menus, select **Gallery > View folders**.
2. Select a folder that contains images and select **Open**.
3. Scroll to an image and select **Options > Open**.

   The image editor starts.
4. Select **Options > Edit image > Options**.

   Options include **Save**, **Insert text**, **Insert frame**, and **Insert clip-art**.
5. To insert text in the center of the image:

   a) Select **Insert text**.

   b) Enter text in the text editor and select **OK**.
6. To put a frame around the image:

   a) Select **Insert frame**.

   b) Scroll to one of the frame images in the **Graphics** folder and select **Options > Insert**.

   c) When the image is displayed with the frame added, select **OK**.
7. To insert clip art in the center of the image:

   a) Select **Insert Clip-art**.

   b) Scroll to one of the clip art images in the **Graphics** folder and select **Options > Insert**.

   c) When the image is displayed with the clip art added, select **OK**.
8. To save the edited image, select **Options > Save**.

Organizer (Menu 9)

Your phone has many useful features for organizing your everyday life, including an alarm clock, a calendar and a to-do list.

• ALARM CLOCK

The alarm clock is based on the internal clock of your phone. It sounds an alert or turns on the built-in FM radio at the time you specify. The alarm works even if the phone is off if there is enough power in the battery. When the alarm is triggered, the clock radio alarm stays on until the radio is turned off.

Select an alarm tone

From the menus, select **Organizer > Alarm clock > Alarm tone**, then select one of the following:

Standard—Select the default alarm tone.

Radio—Use the radio as an alarm. If you select this option, connect the headset to the phone. The phone uses the last channel you listened to as an alarm tone. If the headset is not connected, the default alarm tone is used.

Ringing tone—Select an alarm tone from the ringing tone list.

Open Gallery—Select a sound clip from a Gallery folder to use as an alarm. Open a folder that contains tones, scroll to the tone you want, and select **Options > Select**.

Set an alarm

NOT ALREADY SET

1 From the menus, select **Organizer > Alarm clock > Alarm time**.

2 Enter the time for the alarm in *hh:mm* format, and select **OK**.

3 Select **am** or **pm**.

Alarm on appears briefly in the display and appears on the start screen.

ALREADY SET

1 From the menus, select **Organizer > Alarm clock > Alarm time > On**.

2 Enter the time for the alarm in *hh:mm* format, and select **OK**.

3 Select **am** or **pm**.

Alarm on appears briefly in the display and appears on the start screen.

Turn off an alarm setting

From the menus, select **Organizer > Alarm clock > Alarm time > Off**.

Alarm off appears briefly in the display.

When the alarm sounds

Your phone beeps, vibrates, and the display lights up. **Stop** and **Snooze** appear in the bottom of the display.

WITH THE PHONE ON

Select **Stop** to shut the alarm off.

OR

Select **Snooze**. The alarm stops for 10 minutes and **Snoozing** appears in the display.

If you do not press a key, the alarms stops (snoozes) for 10 minutes, and then sounds again.

WITH THE PHONE OFF

1 The alarm sounds.

If you select **Stop**, **Switch the phone on**? appears in the display:

2 Select **Yes** to power up the phone; select **No** to keep it switched off.

Warning: Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.

• CALENDAR

The calendar keeps track of reminders, calls you need to make, meetings, and birthdays. It can even sound an alarm for any of these events.

Open the Calendar

From the menus, select **Organizer > Calendar**.

After a brief pause, the **Monthly view** appears in the display with the current date highlighted.

Tip: To open the calendar quickly, press the **Right selection** key at the start screen.

Monthly view

Four-way scrolling

You can move the cursor in some calendar views by using the four-way scroll keys like a joystick.

Monthly view

Monthly view provides an overview of the selected month and weeks. It also allows you to jump to a specific date. Any days or dates that appear in bold font contain calendar notes such as a meeting or reminder.

Go to a date

1 From the menus, select **Organizer > Calendar**.

After a brief pause, the monthly view appears in the display.

2 Select **Options > Go to date**.

3 Enter the date (for example, 12/15/2003) and select **OK**.

The monthly view appears in the display with the jump date highlighted.

Make a note for a specific date

You can choose from five types of notes: **Meeting**, **Call**, **Birthday**, **Memo**, and **Reminder**. Your phone asks for further information depending on which note you choose. You also have the option to set an alarm for any note that you select.

1 Go to the date for which you want to set a reminder.

See "Go to a date" on page 112 for more information.

2 From the monthly view with the go to date highlighted, select **Options** > **Make a note**, then select one of the following:

Meeting prompts you to enter a subject, location, and then a start/end time. You are then given the option to set an alarm.

Call prompts you to enter a phone number, a name, and the time. You are then given the option to set an alarm.

Birthday prompts you to enter the person's name, and year of birth. You are then given the option to set an alarm.

Memo prompts you to enter a subject and then an end date. You are then given the option to set an alarm.

Reminder prompts you to enter the subject you wish to be reminded about. You are then given the option to set an alarm.

3 Enter the note and select **Options** > **Save**.

4 Enter the information requested by the prompts.

View calendar notes (the day view)

After you have created some calendar notes, you can view them as follows:

1 From the menus, select **Organizer** > **Calendar**.

After a brief pause, the monthly view appears in the display with the current date highlighted. Any dates that contain calendar notes are in bold.

2 Use four-way scrolling to go to the date containing the note.

3 Select **Options** > **View day**.

Any notes you have for the day appear in a list format.

4 Scroll to the desired note and select **Options** > **View**.

The body of the note appears in the display.

Options while viewing calendar notes

Select **Options** while viewing a day's notes to display and the following options appear:

View—View the full note (available only in header view).

Make a note—Make another note for the selected date (available only in header view).

Delete—Delete the note.

Edit—Edit the note.

Move—Move the note to another date on your calendar.

Repeat—Make the note recur on a regular basis (daily, weekly, biweekly, monthly, and yearly).

Go to date—Jump to another date on your calendar (available only in header view).

Send note—Send the note to another device using Infrared or as a text message or in vCal format.

Copy—Copy the note. You can then paste the note to another date.

Settings—Set the date and time, date and time format, the day each week starts, and whether you want your notes to autodelete after a specified time.

Go to to-do list—Takes you to the to-do list for today's date.

Send a calendar note to another device

1. From the menus, select **Organizer > Calendar**.

   After a brief pause, the monthly view appears in the display. Days containing notes are in bold font.

2. Jump or scroll to the date containing the note you wish to send.
3. Select **Options > View day**.
4. Scroll to the note you wish to send and select **Options > Send note**.
5. Select either **Via Infrared**, **As note**, or **As text message**.

6 If you selected **Via Infrared**, align the infrared ports of both devices and select **Select**.

Ensure the other device is set to receive data using IR. For more information on enabling IR in the receiving device, refer to the user guide for the receiving device.

The note is sent.

7 If you selected **As note**, enter the number for the recipient (or select **Find** to retrieve a number from contacts) and select **OK**.

The note is sent.

8 If you selected **As text message**, the note appears in the display.

9 Select **Options > Send**.

10 Enter the number for the recipient (or select **Find** to retrieve a number from contacts), and select **OK**.

The note is sent.

Receive Calendar notes from another device

When you receive a calendar note, your phone displays **Calendar note received**. You can then save the note in your calendar and set an alarm for any date and time.

VIEW RECEIVED CALENDAR NOTES

1 When your phone displays **Calendar note received**, select **Show**.

The text of your note appears in the display.

2 Press the scroll keys to view the entire message, if necessary.

SAVE RECEIVED CALENDAR NOTES

After viewing the **Calendar note**, select **Options > Save**.

DISCARD VIEWED CALENDAR NOTES

After viewing the Calendar note, select **Options > Discard**.

• TO-DO LIST

You can keep track of your tasks with the to-do list feature. You may be able to save up to 30 notes, depending on their length.

To-do notes are not related to specific dates.

Add a to-do note

1 From the menus, select **Organizer > To-do list > Options > Add**.

2 Enter the to-do note and select **Options > Save**.

3 Select either **High**, **Medium**, or **Low** priority.

The to-do note is saved.

View a to-do note

1 From the menus, select **Organizer > To-do list.**

2 Scroll to a to-do note and select **Options > View**.

The to-do note appears in the display.

Options while viewing to-do notes

Select **Options** while viewing the header or body of a particular note and the following options appear:

View—View the body of a note (available only in header view).

Edit—Edit the content of a note (available only in body view).

Add—Add another note (available only in header view).

Deadline—Set a deadline for the note (available only in body view).

Delete—Delete the note.

Mark note as done—Mark a note or task as complete; no more reminders will follow (available only in body view).

Sort by deadline—Sort the notes according to their deadline.

Send—Send the note as a text message.

Edit priority—Change the priority to high, medium, or low (available only in body view).

Go to calendar—Leave the to-do list and go to the calendar.

Save to calendar—Save the to-do note to a date on your calendar.

Games (Menu 10)

Challenge yourself or a friend to one of the fun games in your phone!

1 From the menus, select **Games**.

After a brief pause, the list of game submenus in the following table appear in the display.

2 Select the desired submenu.

Select game—Select a game or enter a game option list. See "Game options" on page 118 for more info on game options.

Game downloads—Connect to game downloads on the Internet using your browser.

Memory—Check the available memory for games and game related applications.

Settings—Turn game sounds, lights, and shakes on or off.

• GAME DOWNLOADS MENU

1 From the menus, select **Games > Game downloads**.

2 Select one of the options displayed.

After a brief pause, the phone connects to the web pages using the currently active set of browser settings.

If the connection fails, you may enter the **Services** menu and activate another set of service settings. See "Options while online" on page 144 for more info on browser settings.

• LAUNCH A GAME

1 From the menus, select **Games > Select game**.

After a brief pause, a list of games appears in the display.

2 Scroll to a game and press the **Talk** key.

If the selection is a single game it will launch. Otherwise, a list of games within the selected game set appears in the display.

3 To launch a single game, scroll to the desired game and press the **Talk** key.

Tip: If a game uses the whole display area, selection keys such as **Options** or **Back** will not appear in the display. Press the **Left selection** key or the **Right selection** key to show the options keys **Select** or **Back** (returns to the game).

• GAME OPTIONS

While viewing the games list, select **Options** to display the following options. Scroll to an option and select **Select** to activate the option or enter its submenu.

Open—Play the game.

Delete—Delete the game.

Web access—Choose an option for restricting network access. Options are **Ask first**, **Allowed**, and **Not allowed**.

Update version—Check if a new version of the game is available for download.

Web page—Get more information or additional data from an Internet page. This feature is shown only if it is supported by the network and an internet address has been provided by the game.

Service settings—Some games need specific service settings. Your phone is set to use as default the service settings for the browser.

Details—Display details of the game.

Applications (Menu 11)

Your phone supports J2ME Java applications. You will find useful Java utilities pre-installed on your phone. Also, you can manage and download new applications that may be offered by your service provider.

For currency conversion, see "Currency conversion" on page 122 for more information.

• APPLICATION OPTIONS

Open—Open the selected application or application set.

Delete—Delete the application or application set from your phone. If you delete a pre-installed application, you will not be able to recover it.

Web access—Choose an option for restricting network access: **Ask first** (ask for net access), **Allowed** (allow net access), **Not allowed** (do not allow net access).

Update version—Check if a new version of the application is available for download.

Web page—Get further information or additional data for the application from an Internet page. This feature must be supported by a service provider. It is only shown if an Internet address has been provided with the application.

Service settings—Some applications need specific service settings. Your phone is set to use as default the service settings for the browser.

Details—Shows additional information about the application.

• LAUNCH AN APPLICATION

1 From the menus, select **Applications > Select application**.

After a brief pause, one or more applications appear in the display.

2 Scroll to an application or an application set.

3 To launch the application, press the **Talk** key.

OR

Select **Options** > **Open**.

An application may require a few seconds to load. When you open an application, wait for the launch screen to disappear. At that point, the application is ready.

• DOWNLOAD APPLICATIONS

You can download new Java applications in different ways.

Application downloads

1 From the menus, select **Applications** > **App. downloads**.

After a brief pause, the list of available browser bookmarks appears in the display.

Note: This feature is network-dependent. Contact your service provider for more information.

2 Select **More bookmarks** to access the list of browser bookmarks in your **Services** menu.

3 Select the bookmark that contains the application you wish to download.

After a brief pause, you are connected to the web page.

See "Navigate the wireless Internet" on page 140 for information on browsing web pages.

If the connection fails, you may enter the **Services** menu and activate another set of service settings. See "Options while online" on page 144 for more info on browser settings.

Download links

1 From the menus, select **Services** > **Download links**.

2 Select an application from the list.

PC Suite

Use the Java Application installer from PC Suite to download the applications in your phone.

Note: Only install software from sources that you trust.

When you download games or applications, games may be saved in the **Applications** menu and applications may be saved in the **Games** menu.

• VIEW MEMORY STATUS FOR APPLICATIONS

You can view the size of memory available for game and application installations.

From the menus, select **Applications > Memory**.

After a brief pause, the amount of free memory appears in the display.

• CONVERTER II

This application converts many common unit types.

Switch the conversion direction with the **Scroll up** key and the **Scroll down** key.

Press the **Star** key for the minus (-) sign. Press the **Pound** key for the decimal point.

Select **Options** to display the following:

Clear all—Reset the application.

Reverse conv.—Toggle the unit conversion direction.

Set conversion—Set a unit conversion to a certain state that will always occur when you enter the application. Possible states are temperature, currency, weight, length, area, volume, and other (create a new conversion type).

Configure—Provide options for unit conversion.

Instructions—Display instructions for use.

Change sign—Toggle the value of the unit from positive (+) to negative (-) and vice versa.

Extras (Menu 12)

Extras include a calculator with currency exchange rate converter, countdown timer, stopwatch, mobile wallet, and synchronize tool.

• CALCULATOR

Basic calculations

The calculator in your phone adds, subtracts, multiplies, divides, counts the square and the square root, and converts currency values.

Note: This calculator has limited accuracy and is designed for simple calculations.

1 From the menus, select **Extras** > **Calculator**.

After a brief pause, the calculator screen appears in the display.

2 Enter the first number in the calculation.

Press the **Pound** key for a decimal point if necessary.

3 To perform an arithmetic calculation, press the **Star** key to cycle through the add (+), subtract (-), multiply (*), and divide (/) characters, and pause briefly to select the displayed character.

OR

To perform a square or square root calculation, select **Options**, then select **Square** or **Square root**.

4 For an arithmetic calculation, enter the second number in your calculation, then select **Options** > **Equals**.

The sum of your calculation appears in the display.

Currency conversion

You can convert foreign currency to domestic, or vice versa directly from the start screen.

1 At the start screen, enter a currency amount to convert.

2 Select **Options**, then select one of the following options:

To home—Converts foreign currency to domestic currency.

To foreign—Converts domestic currency to foreign currency.

If you have not done so already, you are prompted to enter the exchange rate.

3 Enter the exchange rate, using the **Pound** key to insert a decimal if needed, and select **OK**.

The converted amount appears in the display.

Edit the exchange rate

1 From the menus, select **Extras > Calculator** > **Options** > **Exchange rate**.

2 Select one of the following options:

Foreign units in home units—Enter the number of home units it takes to make one unit of foreign currency.

Home units in foreign units—Enter the number of foreign units it takes to make one unit of your home currency.

3 Enter the exchange rate and select **OK**.

The exchange rate is saved.

• COUNTDOWN TIMER

The countdown timer is like an egg-timer or the timer on your microwave oven. You can enter a specified time (up to 99 hours and 59 minutes), and when the time runs out, your phone sounds an alarm.

Note: The countdown timer only works when the phone is on. Once you turn off your phone, the timer is no longer active.

Set the timer

1 From the menus, select **Extras > Countdown timer**.

After a brief pause, you are prompted to enter the time.

2 Enter the time in *hh:mm* format, then select **OK**.

3 Enter a note for the timer, then select **OK**.

The timer begins running.

Change the time

After you have set the timer, you can change the time.

1 From the menus, select **Extras > Countdown timer > Change time**.

2 Enter the new time in *hh:mm* format, then select **OK**.

3 Leave the note as it was, or enter a new note and select **OK**.

The timer begins running.

When the alarm sounds

When the time runs out, your phone sounds an alarm, displays the timer note, and flashes its lights.

- Press any key during the alarm to stop the timer.
- After 30 seconds the timer alert expires automatically.

Stop the timer before the alarm sounds

From the menus, select **Extras > Countdown timer** > **Stop timer**.

Timer stopped appears in the display.

• STOPWATCH

Your phone has a stopwatch that can be used to track time at sporting events or other occasions. The stopwatch displays time in hours, minutes, seconds and fractions of a second: *hh:mm:ss.s*

While the stopwatch is running, if you press the **End** key and return to the start screen, the clock continues to run in the background and the icon appears in the upper left corner of the screen.

Using the stopwatch consumes the battery and the operating time of the phone will be reduced. Be careful not to let it run in the background when performing other operations with your phone.

Measure time

1 From the menus, select **Extras > Stopwatch > Split timing > Start**.

The running time appears on the screen.

2 To stop timing, select **Stop**.

Measure split time

You can use the split time function for such things as a long distance race when you need to pace yourself.

1 From the menus, select **Extras > Stopwatch > Split timing > Start**.

The running time appears on the screen.

2 To take an intermediate time, select **Split**.

The timer continues to run. The split time appears below the running time.

If you split the time more than once, the new measured time appears at the beginning of the list. You can scroll to see previous measured times.

3 To stop timing, select **Stop**.

The total time appears at the top of the display.

Measure lap time

You can use the lap time function when you want to track how long it takes to complete each cycle or lap.

1 From the menus, select **Extras > Stopwatch > Lap timing > Start**.

The running time appears on the screen.

2 Take a lap time by selecting **Lap**.

The clock stops, then starts immediately from zero. The lap time appears below the running time.

If you take more than one lap time, the new measured time appears at the beginning of the list. You can scroll to see previous measured times.

3 To stop timing, select **Stop**.

The total time appears at the top of the display.

Save the lap time

1 While the clock is running, select **Stop** > **Options** > **Save**.

2 Enter a name for the measurement and select **OK**.

If you do not enter a name, the total time is used as the default title for the lap time.

Other stopwatch options

You can choose the following options when using the stopwatch:

Continue—Shows up when the stopwatch is working in the background.

Show last time—Allows you to view the last measured time.

View times—Allows you to browse the saved times.

Delete times—Allows you to delete any saved times. You can delete the saved times one by one or all at once.

• WALLET

The wallet feature allows you to store personal information like debit and credit card information to an encrypted area of phone memory. This information can then be used to make secure online purchases. Wallet purchases can also utilize digital signatures enabled by a security module in the SIM card (if present) for signing and verifying transactions. Online purchases and digital signature capabilities are dependent upon your service provider.

You can also store important information in a wallet personal note. Security features such as a password and data encryption make it ideal for storing personal information such as PIN codes and other sensitive data.

Security

To protect yourself against unauthorized use of the wallet content, you can require a code to be entered each time you use wallet. See "Activate or deactivate code request" on page 128 for instructions.

Time-out

If wallet is open for longer than 5 minutes without any user interaction (key presses), a query appears in the display asking if you would like to keep **Wallet open**, or **Exit**. If you do not respond within 5 seconds, the wallet application closes and your phone returns to the start screen.

Create a wallet code

The first time you access wallet, you will be asked to create a personalized wallet code. The wallet code can be 4–10 digits in length.

1 From the menus, select **Extras** > **Wallet**.

After a brief pause, you are prompted to enter a wallet code.

2 Enter the 4–10 digit code of your choice and select **OK**.

Wallet prompts you to verify the code.

3 Enter the same code again and select **OK**.

Note: Create a code that is unique, yet easy to remember. This will be your key to using wallet features in the future. Also, keep your wallet code in a secret place, separate from your phone.

Change your wallet code

1 From the menus, select **Extras** > **Wallet**.

After a brief pause, you are prompted to enter your wallet code.

2 Enter your wallet code and select **OK** > **Settings** > **Change code**.

3 Enter the original wallet code and select **OK**.

4 Enter the new wallet code and select **OK**.

5 Enter the new wallet code again for verification and select **OK**.

A message appears in the display confirming your change.

Activate or deactivate code request

To protect yourself against unauthorized use of wallet content and information, you can require the wallet code to be entered each time you use wallet.

1 From the menus, select **Extras > Wallet**.

After a brief pause, you are prompted to enter your wallet code.

2 Enter your wallet code and select **OK > Settings > Code request**.

You are prompted to enter the wallet code.

3 Enter the wallet code and select **OK**.

4 Select **On** to activate or **Off** to deactivate.

A message appears in the display confirming you have activated or deactivated code request.

Reset the wallet code

If you forget the wallet code and wish to erase all the information stored in wallet, follow these steps.

Warning: Once you reset the wallet code and clear the contents of wallet, all of the information is deleted. You must manually enter the information to restore it.

1 At the start screen, enter ***#3925538# (*#ewallet#)**.

A message appears asking if you want to clear your wallet content and code.

2 If you want to permanently delete your wallet code and its contents, select **OK**.

3 Enter the security code and select **OK**.

Your wallet code and content are erased.

Create a wallet card

Wallet cards contain data entry fields for shipping, billing, receipt, and card information. Wallet can hold up to five credit card sets.

1 From the menus, select **Extras** > **Wallet**.

After a brief pause, you are prompted to enter the wallet code.

2 Enter the wallet code and select **OK** > **Cards**.

3 Scroll to a card and select **Options** > **View**, then select one of the following:

Card info—Enter the card holder, type, number, verification value, expiration day, expiration month, and expiration year.

User info—Enter your user name and password.

Shipping info—Enter your first, middle, and last name, company name and street address 1, street address 2, city, state, zip code, and country, phone number, and e-mail address.

Billing info—Enter your first, middle, last name, company name and street address 1, street address 2, city, state, zip code, country, phone number, and e-mail address.

Receipt info—Enter the **receipt to phone number** and **receipt to e-mail** address.

Compose a personal note

Wallet can store up to 30 personal notes, such as passcodes or other sensitive data. Your notes are protected by the wallet security feature.

1 From the menus, select **Extras** > **Wallet**.

After a brief pause, you are prompted to enter your wallet code.

2 Enter your wallet code and select **OK** > **Personal notes** > **Add new**.

3 Compose your note, and select **Options** > **Save**.

4 Enter a title for the note and select **Options** > **Save**.

Your note is saved.

OPTIONS WHILE VIEWING THE NOTES LIST

1 From the menus, select **Extras** > **Wallet** > **Personal notes**.

The headers of the notes you have composed appear in the display.

2 Scroll to a note header and Select **Options**, then select one of the following:

View—View the contents of the selected note.

Edit—Edit the contents of the selected note.

Add new—Compose and save a new note.

Sort—Sort the list of notes by name or date.

Delete—Delete the selected note.

Delete all—Delete all notes.

OPTIONS WHILE VIEWING A NOTE

While viewing a personal note, select **Options**, then select one of the following:

Edit—Edit the note.

Send as text—Send the note to a compatible phone using SMS.

Copy to calendar—Copy the note to any date on your calendar.

Use detail—Capture any numbers within the note. The number can then be saved to contacts, used to place a call, or you can send a message to the number.

Delete—Erase the note.

• SYNCHRONIZE

Your phone synchronization feature allows you to synchronize the calendar and contacts data in your phone with a remote Internet server or a compatible PC.

Contacts in your SIM card will not be synchronized.

Note: This feature must be supported by your service provider. For more information on availability and synchronization service settings, contact your service provider.

Save settings

You may receive the synchronization settings as a text message or you may need to enter the synchronization settings manually. If you do not receive the synchronization setting as a text message, see "Save settings manually" on page 131 for more information.

SAVE SETTINGS WHEN RECEIVED AS A TEXT MESSAGE

When you receive the synchronization settings as a text message, **Synchronization settings received** is displayed.

Select **Options**, then select one of the following:

Details—View the received settings first.

Save—Save the synchronization settings.

Discard—Discard the synchronization settings.

SAVE SETTINGS MANUALLY

You need to activate the set where you want to save the synchronization settings. A set is a collection of settings required to make a connection to a service.

1. From the menus, select **Extras > Synchronization > Settings > Active Internet sync. settings**.
2. Scroll to the set you wish to activate and select **Activate**.

   A confirmation message appears in the display.
3. Select **Custom. active Internet sync. sett.**, then select each of the following and enter the required settings:

   Settings' name—Rename the synchronization setting and select **OK**.

   Data to be synchronized—Scroll to **Contacts** or **Calendar**, then select **Mark** to synchronize that type of data. You can mark both types if desired. Select **Unmark** to prevent synchronization. Select **Done** to save the changes.

   Database addresses—Select **Contacts database** or **Calendar database**, enter the name of the database, and select **OK**. You can provide an address for each database if desired.

User name—Enter the user name and select **OK**. (Contact your service provider, if necessary, for this information.)

Password—Enter the password and select **OK**. (Contact your service provider, if necessary, for this information.)

Synchronization server—Enter the name of the server and select **OK**.

Synchronize from your phone

If you have saved data in the remote Internet server, you can synchronize your phone by starting the synchronization from your phone. Once you have customized and selected the appropriate synchronization settings, you are ready to synchronize data. (See "Save settings" on page 131 or "Save settings manually" on page 131 for more information.)

SYNCHRONIZE DATA

1 From the menus, select **Services > Active service settings**.

The synchronization settings may differ from the service settings required for browsing. After synchronizing, change your active service settings back to the previous ones if you want to use other services later.

2 Mark the data to be synchronized.

See "Save settings manually" on page 131 for more information.

3 From the menus, select **Extras > Synchronization > Synchronize**.

Synchronization begins.

Depending on the type of connection you are using to synchronize data, connecting or initializing messages may appear.

Note: Synchronizing for the first time or after an interrupted synchronization may take time up to 30 minutes, if contacts or calendar are full.

STOP SYNCHRONIZATION

1 To stop synchronization select **Quit** or press the **End** key.

The **Quit synchronization?** message appears.

2 Select **OK**.

HANDLE CALLS DURING SYNCHRONIZATION

During synchronization, outgoing calls are not possible. Incoming calls can still be received, and can be handled in one of the following ways:

- To reject the incoming call, press the **End** key (synchronization continues).
- To answer the incoming call, press the **Talk** key (synchronization is interrupted and a **Synchronization suspended** message appears).

Note: Once the incoming call is ended, a **Start synchronization again?** message appears. Selecting **Yes** starts synchronization over again, from the beginning.

Synchronize from your PC

You can synchronize the data in contacts and calendar to correspond with the data of your PC by starting the synchronization from your PC.

To synchronize contacts and calendar from your PC, use either an IR connection or a data cable. You also need the Nokia PC Suite software.

Start the synchronization from your PC using Nokia PC suite. After synchronizing, the data in the phone and in the PC are the same.

Connectivity (Menu 13)

You can make a serial connection between your phone and a PC using the DKU-5 data cable, which is available for purchase as an enhancement. Once you establish this connection, you can access phone information from your PC, or use your phone as a wireless modem. It may also be possible to make this same serial connection between your phone and an IR-equipped laptop or IR-equipped desktop PC using the IR port.

For more information, see the PC/PDA connectivity guide. This document can be downloaded from the Nokia website at **http://www.nokia.com**.

• INFRARED

You can set up the phone to receive data through its IR port. To use an IR connection, transmission and reception must be to or from an infrared compatible phone or device. You can send or receive data such as business cards and calendar notes to or from a compatible phone or data device (such as a computer) using the IR port of your phone.

Warning: Do not point the IR beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 laser product.

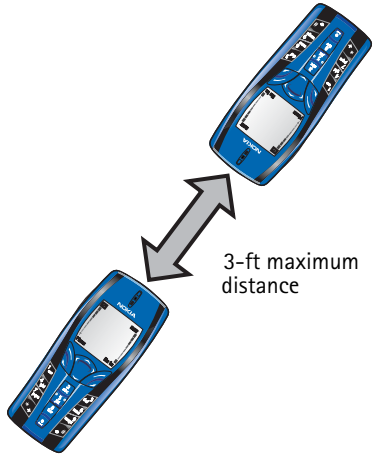
SEND AND RECEIVE DATA

1 Ensure that the IR ports of the sending and receiving devices are pointing at each other and that there are no obstructions between the devices.

The preferable distance between the two devices in an IR connection is from 3 inches to 3 feet.

2 Activate IR in your phone by selecting **Connectivity > Infrared** from the menus.

3 The user of the other device should activate IR as well.



If data transfer is not started within two minutes after the activation of the IR port, the connection is cancelled and must be restarted.

CONNECTION INDICATOR

- When is shown continuously, the IR connection is activated and your phone is ready to send or receive data using its IR port.
- When blinks, your phone is trying to connect to the other device or a connection has been lost.

• GPRS, HSCSD, CSD

With your phone you can use general packet radio service (GPRS), high-speed circuit switched data (HSCSD), and circuit switched data (CSD).

GPRS is a technology used to send and receive data using short bursts or packets over the wireless network. With GPRS, you can stay connected to the Internet and allow for faster downloads without completing a dial-up connection. Applications using GPRS include the browser, text messaging and dial-up connections for making digital data calls

GPRS dial-up connections

When you use your Nokia phone as a wireless modem, you have the option of enabling GPRS connectivity from your PC or laptop computer.

Before you can use GPRS technology, you must save the GPRS settings for each of the applications used over GPRS. Some service providers may have already set up information for your GPRS dial-up connection.

In order to use GPRS, you must first subscribe to the network service. Contact your service provider for details.

GPRS icons

The following icons appear on the screen to show you the status of your GPRS connection.

Shows up in the upper left corner of the screen. Indicates an active GPRS connection, for example, when you are using the browser.

Indicates that CSD or voice calls are not possible when using GPRS.

Indicates that the GPRS connection has been interrupted by a voice call.

• DATA COMMUNICATION APPLICATIONS

For information on using a data communication application, refer to the documentation provided with the application.

If you use an IR connection, activate the IR connection in your phone by selecting **Connectivity > Infrared** from the menus. Also, make sure that the connection is active in your PC.

If you use the DKU-5 data cable:

1 Connect the cable to the USB port on your computer and to the connector on your phone.

2 Start using the data communications application on the computer.

Note: Making or answering phone calls during a computer connection is not recommended as it might disrupt the operation.

For better performance during data calls, place the phone on a stationary surface with the keypad facing downward. Do not move the phone during a data call.

• NOKIA PC SUITE

Nokia PC Suite 5 is a collection of powerful tools that you can use to manage phone features and data. PC Suite consists of the following components:

Nokia Content Copier allows you to copy data between two Nokia phones, to back up phone data to your PC (then restore the data back to your phone), and erase data from your phone.

Nokia Connection Manager allows you to monitor the serial connection between your phone and PC and switch to a different type of connection (cable, IR, or Bluetooth) when copying data from one phone to another.

Nokia Sound Converter allows you to convert General MIDI files for use with MMS messages and as ringing tones for your phone.

Nokia PC Sync allows you to synchronize contacts, calendar, and to-do list items between your phone and PIM applications such as Microsoft Outlook and Lotus Organizer.

Nokia Image Converter allows you to convert and optimize graphics for use in MMS messages or for creating desktop wallpaper for your phone.

Nokia Phone Editor allows you to edit contacts and settings from your PC.

Nokia Application Installer allows you to install Java applications from your PC to your phone.

Nokia Phone Browser allows you to browse the contents of your phone using Windows Explorer or My Computer.

Refer to the *Nokia PC Suite Connectivity Guide* for installation and setup instructions.

PC Suite software and documentation for the Nokia 7250i can be downloaded from the U.S. Mobile Phone products section of **www.nokia.com**.

Services (Menu 14)

Your phone has a built-in browser you can use to connect to selected services on the Internet. You can view weather reports, check news or flight times, view financial information, and much more. The browser on your phone can display WAP-based content.

Note: This feature is network-dependent. Contact your service provider for more information.

• NOTES ON WIRELESS INTERNET ACCESS

This section gives a brief overview of wireless Internet technology.

Technology background

A technology called Wireless Application Protocol (WAP) is to mobile devices what the World Wide Web (WWW) is to personal computers. The mobile community began developing WAP several years ago to provide access to the Internet for mobile users.

Most WAP sites are made up of text and hyperlinks. Some pages even contain low-resolution graphics, or require data input. Your service provider and others are free to design WAP sites as they choose, so the sites are as variable as web pages on the world wide web.

Internet content on your personal computer is called a web page. Internet content on your mobile phone is called a page or card.

With your multimode browser you can view the services that use Wireless Mark-Up Language (WML) or extensible Hyper Text Mark-up Language (xHTML). Since the phone display and memory capacity are much smaller than in a computer, Internet content is displayed differently. You may not be able to view all the details on some Internet pages.

Role of the service provider

Because wireless Internet content is designed to be viewed from your phone, your service provider is now your wireless Internet service provider as well.

It is likely that your service provider has created a home page and set up your browser to go to this page when you log on to the Internet. Once at your service provider's home page, you may find links to a number of other sites.

• SET UP FOR BROWSING

It should not be necessary to manually configure the browser on your phone. Normally this is done by your service provider once you have subscribed to the feature. Contact your service provider if you have problems using the browser.

• SIGN ON TO THE WIRELESS INTERNET

Activate service settings for the desired service

1 From the menus, select **Services** > **Settings** > **Connections settings** > **Active service settings**.

2 Scroll to the desired service and select **Activate**.

Connect to the service

Your service provider may have programmed the **Right selection** key to connect you directly to a web site, for example, the provider's customer site. You can change this setting by reprogramming the **Right selection** key. See "Personal shortcuts" on page 87.

You can also program the **Right selection** key to connect you directly to a web site of your choice. See "Personal shortcuts" on page 87.

There are several ways to connect to a service:

- To open the service's start page, from the menus, select **Services > Home**.

  OR

  At the start screen, press and hold the **0** key (the Internet icon).

- To select a bookmark, select **Services > Bookmarks** and select a bookmark from the list.

  If the bookmark does not work with the current active service settings, activate another set of service settings and try again.

- To enter the address of the service, select **Services > Go to address**. Enter the address of the service and select **OK**.

After a brief pause, the phone attempts to connect to your service provider's home page.

If you see **Check service settings**, the phone may not be set up for browsing. Contact your service provider to make sure that your phone is configured properly.

• NAVIGATE THE WIRELESS INTERNET

Since your phone screen is much smaller than a computer screen, Internet content is displayed differently from content displayed on a computer. This section contains guidelines for using phone keys to navigate a WAP site.

- To browse the WAP site, press the **Scroll up** key or the **Scroll down** key.
- To select a highlighted item, press the **Talk** key.
- To enter letters and numbers, press a key from **0–9**.
- To enter special characters, press the **Star** key.

• EXAMPLES OF WIRELESS INTERNET SITES

The following illustrations show most of the elements you may find on a wireless Internet site. These are examples only.

1) **Header line**. Shows the current Internet site.
2) **Active link**. Appears as a highlighted word.
3) **Inactive link**. Appears as an underlined word.

Scroll through the list of links using the **Scroll up** key and the **Scroll down** key.

4) **Selection list**. Brackets [ ] appear when you have the option to enter information.
5) **Options**. Select **Options** to go to the site menu and/or browser page.
6) **Back**. Select **Back** to return to the previous page.

7) **Data entry field**. Brackets [ ] that enclose dots indicate when you need to enter information. In this example, you can enter your zip code to receive the local weather forecast.

• BOOKMARKS

You can save addresses for your favorite sites as bookmarks. You can add up to 50 bookmarks to your browser. Once you have saved a bookmark, you can program the **Go to** menu to take you directly to that site.
See "Personal shortcuts" on page 87.

Enter bookmarks manually

1. From the menu, select **Services > Bookmarks**.

   After a brief pause, a list of bookmarks (if any) appear in the display.
2. Select **Options > New bookmark**.
3. Enter an address for the bookmark and select **OK**.
4. Enter a title for the bookmark and select **OK**.

   A message appears in the display confirming your bookmark is saved.

Set bookmarks while online

While you are connected to the site that you want to bookmark, select **Options > Add bookmark**.

A message appears in the display confirming your bookmark is saved.

• FILE UPLOAD

Depending on your service, you may be able to upload images and sound files from your phone to a web page. You must be connected to an xHTML page that contains embedded image upload tags. Follow the instructions on the display to upload files. For more information, contact your service provider.

• DISCONNECT FROM THE INTERNET

To close your connection, press the **End** key twice.

• SET UP AN AUTOMATIC CONNECTION

Some service providers may have customized the options on the **Services** menu. Contact your service provider for more information if the options shown here are not available.

You can choose one of the following options for your GPRS connection.

1 From the menus, select **Connectivity > GPRS > GPRS connection**.

After a brief pause, the following options appear in the display.

2 Select one of the following options.

Always online—The phone is automatically registered to a GPRS network when you turn your phone on. When you use the WAP browser, the connection between your phone and the network is created and data transfer is possible. When you exit the WAP browser, the GPRS connection ends but the registration to the GPRS network remains.

When needed—The GPRS connection is established when you use the WAP browser and is closed when you exit the WAP browser.

• RECEIVE A CALL WHILE ONLINE

If you are using the WAP browser over GPRS, you can still receive a voice call. Your data call is put on hold and you can choose to answer the call.

- To answer the incoming call, press the **Talk** key.
- To reject the incoming call, press the **End** key.

Note: After you end your voice call, the GPRS connection automatically resumes.

• MAKE A CALL WHILE ONLINE

When you are browsing a WAP card and want to make a call, select **Options > Other options > Use detail > Phone number**. Your phone then searches the information on the WAP card for a string of numbers. You can then choose from the number or numbers displayed to place the call.

An alternate way is to press the **End** key to disconnect from the Internet, then place your call by searching contacts for a name and number or by keying in the phone number.

• MAKE AN EMERGENCY CALL WHILE ONLINE

If you are using GPRS to connect to the Internet, you can end your data connection and then make an emergency call.

1. To close your Internet connection, press the **End** key.
2. Enter the emergency number for your present location (for example, 911).
3. Press the **Talk** key.

• OPTIONS WHILE ONLINE

While you are connected to the Internet, select **Options** to access the following options. Some service providers may have customized these options. Contact your service provider for more information if any of the following options are not available.

Home—Starts the browser and takes you to your service provider's home page.

Add bookmark—Saves the current page as a bookmark.

Bookmarks—Shows a list of all saved bookmarks. Bookmarks help you find a WAP site quickly.

Download links—Show the list of bookmarks for downloading.

Shortcuts—Open a new list of options, for example, options specific to the current page.

Other options—Show a list of other options, such as appearance and security options.

Reload—Reload and update the current page.

Quit—Disconnect from a service.

- **SECURITY**

Cache memory

The information or services you access with the WAP browser are temporarily saved in the cache memory of the phone. A cache is a buffer memory, which is used to store data temporarily.

If you tried to access or have accessed confidential information requiring passwords (for example, your bank account), clear the cache after each use.

To clear the cache from the menu, select **Services > Clear the cache**.

To clear the cache while browsing, select **Options > Other options > Clear the cache**.

Certificates

To use some WAP services, such as banking services, you need an authority certificate. Using the certificate can help you to improve the security of connections between your phone and a WAP server.

You can download the certificate from a WAP page if the WAP service supports the use of authority certificates. After the download, you can view the certificate, then save or delete it. If you save the certificate, it is added to the list of certificates in the phone.

Your phone alerts you if the identity of the WAP server or WAP gateway cannot be verified or is not authentic.

To view the list of authority certificates, from the menus, select **Services > Settings > Security settings > Authority certificates > Certificate list**.

- **ALLOW OR REJECT COOKIES**

A cookie is data that a web site saves in your phone browser cache memory. The data can be, for example, your user information or your browsing preferences. Cookies will be saved until you clear the cache memory.

1 From the menus, select **Services** > **Settings** > **Security settings** > **Cookies**.

OR

While browsing, select **Options** > **Other options** > **Security settings** > **Cookies**.

2 Select **Allow** to accept cookies or **Decline** to reject cookies.

• CREATE A DIGITAL SIGNATURE

You can make digital signatures with your phone. The signature can be traced back to you through the private key on the security module and the user certificate that was used to perform the signature. Using the digital signature can be the same as signing your name to a paper bill, contract or other document.

1 While browsing, select a link on a page, such as the title of the book you want to buy and its price.

The text to sign (possibly including amount, date, etc.) will be shown.

2 Check that the header text is **Read** and that the digital signature icon is shown. If the digital signature icon does not appear, there is a security breach, and you should not enter any personal data such as your signing PIN.

3 Read *all* of the text before signing, scrolling through the text if necessary.

4 To sign the text, select **Sign**.

5 Select the user certificate you want to use, enter the signing PIN (provided with the SIM card if the SIM card has a security module), and select **OK**.

The digital signature icon disappears, and the service may display a confirmation of your purchase.

- ## APPEARANCE SETTINGS

You can determine how pages appear on the phone display.

1 From the menus, select **Services** > **Settings** > **Appearance settings**.

2 Select one of the following options:

Text wrapping—Text on the web page continues on the next line if it cannot be shown on only one line. Select **On** to allow text wrapping, or **Off** to prevent text wrapping.

Show images—Select **Yes** to display pictures from the page, or **No** to hide pictures. When pictures are displayed, pages load more slowly.

Go to (Menu 15)

The **Go to** menu lets you access specific functions quickly. You can personalize the menu so that it lists the functions you use most frequently. See "Personal shortcuts" on page 87 for instructions on setting up the Go to menu.

SIM services (Menu 16)

In addition to the functions available on the phone, your SIM card may provide additional services that you can access in Menu 16. This menu is shown only if it is supported by your SIM card. The name and contents of the menu depend entirely on the service available. For availability, rates, and information on using SIM services, contact your service provider.

To see the messages sent between the phone and the network when you are using the SIM services, select **Settings** > **Phone settings** > **Confirm SIM service actions** > **Yes**.

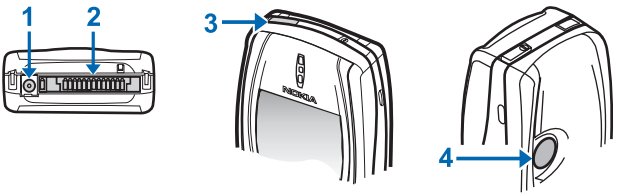
Accessing these services may involve sending a text message or making a phone call for which you may be charged.

9 Hardware and enhancements

• HARDWARE

Connection ports and other tools

- Charger connector (1)
- Pop-Port™ connector for headsets and data cables (2)
- IR (infrared) port (3)
- Camera lens on the back cover of the phone (4)



Antenna

Your phone has a built-in antenna. As with any other radio transmitting device, avoid touching the antenna while the phone is powered up.

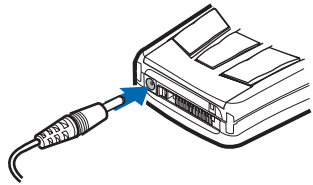
Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than necessary. Hold the phone as you would any other telephone with the antenna area pointed up and over your shoulder.

Recharge the battery

Your phone is powered by a rechargeable battery. To charge the battery:

1 Plug the charger transformer in to a standard ac outlet.

2 Insert the charger output plug into the round connector at the bottom end of the phone.



After a few seconds, the battery indicator in the display starts to scroll from bottom to top. If the battery is completely flat, it may take a few minutes before the charging indicator appears on the display or any calls can be made.

Tip: You can use the phone while the charger is connected.

Change the Xpress-on™ covers

Warning: Before changing covers, ensure the phone is powered off and disconnected from the charger or any other device. Always store and use the phone with the covers attached.

REMOVE THE BACK COVER AND THE BATTERY

This procedure is illustrated in the section "Recharge the battery" on page 149.

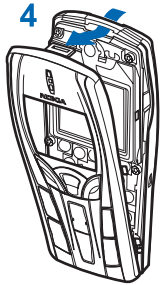
1 Push the back cover release toward the top of the phone.

2 Lift the back cover away from the phone to remove.

3 After you have removed the back cover, insert your finger into the finger grip and lift the battery from its compartment.

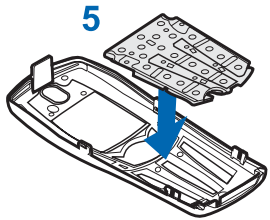
REMOVE THE FRONT COVER

4 Press the front cover latch on the top of the phone while gently pulling the top of the front cover away from the rest of the phone.



INSTALL THE KEY MAT AND NEW FRONT COVER

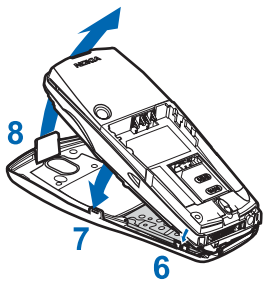
5 Remove the key mat from the old front cover and place it into the new front cover as shown.



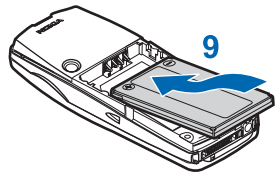
6 Insert the latches from the bottom of the new front cover into the matching holes at the bottom of the phone.

7 Gently push the latches from the middle of the front cover into the matching holes in the middle of the phone.

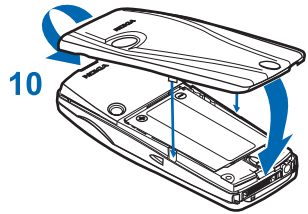
8 Gently push the cover latch on the top of the front cover through the locking hole in the top of the phone, and snap the cover into place.



9 Install the battery, and then match the top of the back cover to the locking catch in the top of the phone.



10 Position the back cover over the locking catches on both sides of the phone, and press down to lock the cover into place.



• ABOUT ENHANCEMENTS

Check the model number of any charger before use with this device. This device is intended for use when supplied with power from ACP-7, ACP-8, ACP-12, LCH-9, LCH-12, DDC-1, and DT-1.

Warning: Use only batteries, chargers and enhancements approved by the phone manufacturer for use with this particular phone model. The use of any other types may invalidate any approval or warranty applying to the phone, and may be dangerous.

For availability of approved enhancements, please check with your dealer.

When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

Important battery information

CHARGING AND DISCHARGING

Your phone is powered by a rechargeable battery.

Note that a new battery's full performance may be achieved only after two or three complete charge and discharge cycles!

The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.

Use only batteries approved by the phone manufacturer and recharge your battery only with the chargers approved by the manufacturer. Unplug the charger when not in use. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its lifetime. If left unused, a fully charged battery will discharge itself over time.

Temperature extremes can affect the ability of your battery to charge; allow it to cool down or warm up first.

Use the battery only for its intended purpose.

Never use any charger or battery which is damaged or worn out.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip, or pen) causes direct connection of the + and - terminals of the battery (metal strips on the battery), for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 59°F and 77°F (15°C and 25°C). A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire!

Dispose of batteries according to applicable local regulations (for example, recycling). Do not dispose of as household waste.

PROLONG THE BATTERY

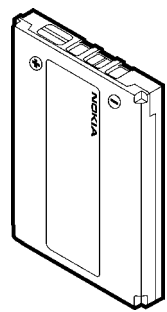
Use the following guidelines to obtain the best performance from your battery:

- You can use your phone while the battery is charging. However, if the battery is completely empty, it may need to recharge a few minutes before you can make or receive calls or the battery indicator appears.
- After the first charge, you can make and receive calls during the charging cycle, but a call lengthens the charging time. When a call ends, the normal charging cycle resumes.
- The bars on the screen stop scrolling and remain constant when the phone is fully charged. If you leave the phone connected to the charger, the battery receives an additional charge. If you switch the phone on when charging is complete, **Battery full** momentarily appears in the display.

Note: The battery will accept a "trickle charge" for an additional two hours.

• POWER

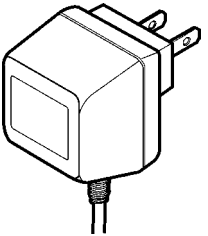
Standard 720-mAh Li-Ion battery (BLD-3)



- Provides up to 5 hours of talk-time.
- Provides up to 3 hours talk-time using the loudspeaker.
- Provides up to 10 days of standby time.
- Provides up to 20 hours of playing time for the radio when using the headset.
- Provides up to 8 hours of playing time for the radio when using the speaker.

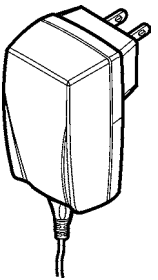
Note: Operation times are estimates and may vary depending on network conditions, charging and phone use.

Standard travel charger (ACP-7)



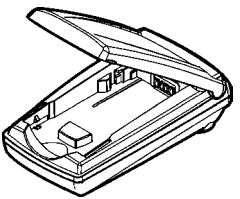
This lightweight ac charger can be used with all battery options. To use the charger, plug it into a standard 120-Vac wall outlet, and connect the lead from the charger to the base of your phone. Calls can be made during charging, even with a fully discharged battery. The charger can also be used together with the optional Desktop stand (DCV-14).

Multivoltage performance travel charger (ACP-8)



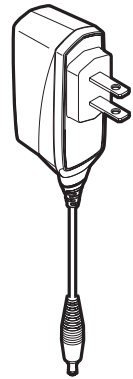
This lightweight ac charger can be used with all battery options. To use the charger, plug it into a standard 120-Vac wall outlet, and connect the lead from the charger to the base of your phone. Calls can be made during charging, even with a fully discharged battery. The charger can also be used together with the optional Desktop stand (DCV-14).

Battery charging stand (DDC-1)



Charge a spare battery with this convenient stand.

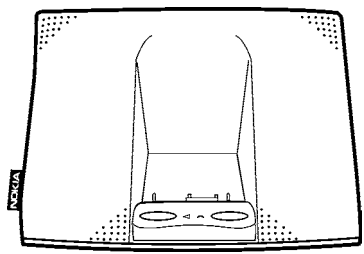
Rapid travel charger (ACP-12)



This lightweight ac charger can be used with all battery options. To use the charger, plug it into a standard 120-Vac wall outlet, and connect the lead from the charger to the base of your phone. Calls can be made during charging, even with a fully discharged battery. The charger can also be used together with the optional Desktop stand (DCV-14).

• AUDIO

Music stand (DT-1)



Equipped with full-range stereo speakers, the Nokia Music stand is designed for listening to your FM phone radio in excellent quality stereo sound. It also includes input for external audio devices. Just plug in a compatible CD player or MP3 player to the external audio input at the back of the stand to enjoy music on the stereo speakers.

Keeping the business user in mind, the Nokia Music stand has an automute feature for external audio sources. And the integrated microphone lets you make conference calls and talk handsfree while your phone is charging in this stylish, streamlined music stand.

Headset (HS-5)

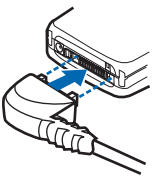
The headset provides an easy and convenient handsfree solution with a remote control.

Boom headset (HDB-4)

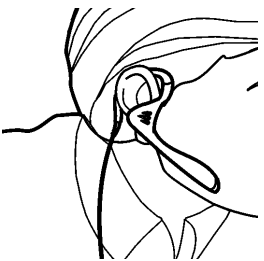
New over-the-ear design concept boom headset is small, lightweight, and provides excellent audio quality.

Connect the headset

1 Plug the headset plug into the Pop-Port™ connector at the bottom end of your phone.



2 Position the headset on your ear as it appears in the illustration to the right.

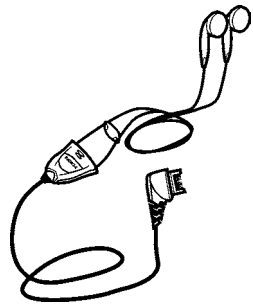


With the headset connected, you can make, answer, and end calls as usual.

- Use the keypad to enter numbers.
- Press the **Talk** key to place a call.
- Press the **End** key to end a call.

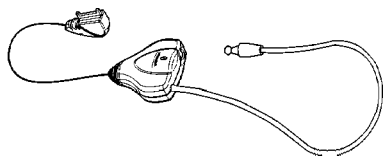
Stereo headset (HDS-3)

Distinctive Nokia design enabling the use of stereo FM radio available on some Nokia phones. Provides excellent audio quality and handsfree functionality with an integral send/end button.



Loopset (LPS-4)

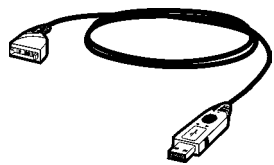
With the Nokia loopset, people who use a T-coil equipped hearing aid have the freedom to talk on a digital mobile phone. The loopset goes around your neck, so it can be worn comfortably and discreetly.



- **DATA**

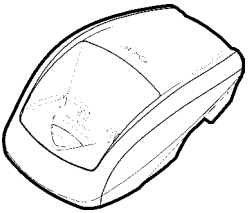
Data cable (DKU-5)

For e-mail, faxes, Internet, and data transmissions, the data cable provides easy and convenient connection with no modem or PC card needed.



Desktop stand (DCV-14)

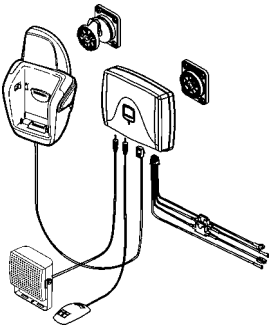
The desktop stand provides easy charging and convenient data synchronization with a compatible computer using the data cable (DKU-5) sold separately.



- **CAR**

Full car kit (CARK-143)

The full car kit is a complete handsfree solution for your vehicle.

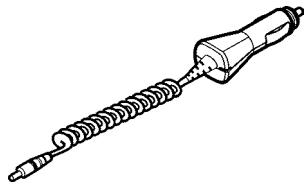


- Advanced car handsfree unit (HFU-4)
- Mounting plate (MKU-1)
- Handsfree microphone (HFM-8)
- Handsfree speaker (HFS-12)
- Power cable (PCU-4)
- System cable (SCU-4)
- Mobile holder (MBC-15S) and swivel mount (HHS-15)

The car kit's ignition sense feature prevents the phone from draining the car battery when the car ignition is turned off.

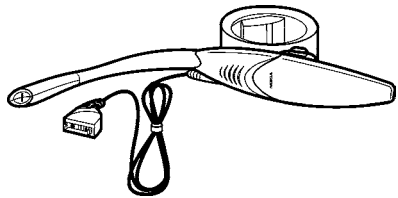
Note: MBC-15S and HHS-15 are also sold separately.

Mobile lighter charger (LCH-12)



This multi voltage charger plugs into the cigarette lighter and is an easy and convenient way to charge the compatible phone battery in a vehicle. This lightweight ac charger can be used with all battery options. To use the charger, plug it into a standard 120-Vac outlet, and connect the lead from the charger to the base of your phone. Calls can be made during charging, even with a fully discharged battery.

Headrest handsfree (BHF-1)



This handsfree unit with an integrated microphone installs on a car headrest and provides basic handsfree operation.

• COVERS AND CASES

Xpress-on color covers

Express yourself with Xpress-on color covers that match your own unique style.

Carry cases

A wide range of stylish carrying cases for your Nokia phone is available from your local Nokia dealer. The availability and selection of carrying cases may vary by dealership.

10 Reference information

• CARE AND MAINTENANCE

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfill any warranty obligations and to enjoy this product for many years:

- Keep the phone and all its parts and enhancements out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When it warms up (to its normal temperature), moisture can form inside which may damage electronic circuit boards.
- Do not attempt to open the phone. Nonexpert handling may damage it.
- Do not drop, knock, or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.
- Do not paint the phone. Paint can clog the moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate regulations governing radio devices.

All of the above suggestions apply equally to your phone, battery, charger or any enhancement. If any of them are not working properly, take them to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

• IMPORTANT SAFETY INFORMATION

Traffic Safety

Do not use a handheld telephone while driving a vehicle. Always secure the phone in its holder; do not place the phone on the passenger seat or where it can break loose in a collision or sudden stop.

Remember road safety always comes first!

Operating environment

Remember to follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

Use the phone only in its normal operating positions.

Electronic devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

PACEMAKERS

Pacemaker manufacturers recommend that a minimum separation of 6 inches (20 cm) be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers:

- Should always keep the phone more than 6 inches (20 cm) from their pacemaker when the phone is switched on
- Should not carry the phone in a breast pocket

- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

HEARING AIDS

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider.

Other medical devices

Operation of any radio transmitting equipment, including cellular phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your phone in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles (for example, electronic fuel injection systems, electronic antiskid/antilock braking systems, electronic speed control systems, air bag systems). Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted facilities

Switch your phone off in any facility where posted notices so require.

Potentially explosive atmospheres

Switch off your phone when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch off the phone when at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats; chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

Vehicles

Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty which may apply to the unit.

Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.

Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the phone, its parts, or enhancements.

For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

FCC regulations prohibit using your phone while in the air. Switch off your phone before boarding an aircraft. The use of wireless telephones in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Failure to observe these instructions may lead to suspension or denial of telephone services to the offender, legal action, or both.

• EMERGENCY CALLS

Warning: This phone, like any wireless phone, operates using radio signals, wireless, and landline networks as well as user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. Therefore you should never rely solely upon any wireless phone for essential communications (for example, medical emergencies).

Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on. Check for adequate signal strength.
2. Press the **End** key as many times as needed (for example, to exit a call, to exit a menu, etc.) to clear the display and ready the phone for calls.
3. Enter the emergency number (for example, 911).
4. Press the **Talk** key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this user guide and your local cellular service provider.

CERTIFICATION INFORMATION (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone as reported to the FCC when tested for use at the ear is 0.69 W/kg, and when worn on the body, as described in this user guide, is 0.70 W/kg. (Body-worn measurements differ among phone models, depending upon available enhancements and FCC requirements).

While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of **http://www.fcc.gov/oet/fccid** after searching on FCC ID **PYA NHL-4JX**.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines for use with an enhancement that contains no metal and that positions the handset a minimum of 7/8 inch (2.2 cm) from the body. Use of other enhancements may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn enhancement and are not holding the phone at the ear, position the handset a minimum of 7/8 inch (2.2 cm) from your body when the phone is switched on.

*In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. SAR values may vary depending on national reporting requirements and the network band. For SAR information in other regions please look under product information at **www.nokia.com/us**.

11 Troubleshooting

The following table lists some common problems and their solutions.

Problem	Possible cause	Possible solution
My phone is not charging	The charger and phone are not properly connected.	Securely connect the charger to the phone.
	The charger is not properly plugged into the wall.	Ensure the charger is plugged in correctly.
My phone is not making/ receiving calls	The battery is not charged.	Charge the battery.
	The signal strength is poor.	If you are indoors, move toward a window.
I cannot listen to my voice messages	You do not have voice mail service.	Call your service provider.
	You have not set up your voice mail service with your service provider.	Call your service provider.
	You have not saved your voice mail number to your phone.	See "Save your voice mailbox number" on page 67.
	You have forgotten your password or are entering it incorrectly.	Call your service provider.
	The voice mail number you have saved to your phone is incorrect.	Call your service provider.
When I insert my SIM card into another phone, it is rejected	Fixed dialing is activated on your SIM card and the receiving phone does not support fixed dialing.	Deactivate fixed dialing on the SIM.

12 Technical information

Feature	Specification
Dimensions	Width 1.73 in (44 mm) Height 4.13 in (105 mm) Depth 0.75 in (19 mm)
Weight	3.24 oz (92 gm) with BLD-3 Li-Ion Battery
Wireless networks	GSM 900, 1800, and 1900 networks
Size (volume)	4.45 cu in (73 cu cm)
Frequency range (Tx)	GSM 900: 880–915 MHz GSM 1800: 1710–1785 MHz GSM 1900: 1850–1910 MHz
Frequency range (Rx)	GSM 900: 925–960 MHz GSM 1800: 1805–1865 MHz GSM 1900: 1930–1990 MHz
Tx output power	2 W (max)
Battery voltage	3.7 Vdc
Number of channels	299

13 Nokia one-year limited warranty

Nokia Inc. (“Nokia”) warrants that this cellular phone (“Product”) is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

1 The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product. This one year period is extended by each whole day that the Product is out of your possession for repair under this warranty.

2 The limited warranty extends only to the original purchaser (“Consumer”) of the Product and is not assignable or transferable to any subsequent purchaser/end-user.

3 The limited warranty extends only to Consumers who purchase the Product in the United States of America.

4 During the limited warranty period, Nokia will repair, or replace, at Nokia’s sole option, any defective parts, or any parts that will not properly operate for their intended use with new or refurbished replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. Nokia will also pay for the labor charges incurred by Nokia in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. Nokia’s limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. Nokia shall not be liable for any other losses or damages. These remedies are the Consumer’s exclusive remedies for breach of warranty.

5 Upon request from Nokia, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.

6 The Consumer shall bear the cost of shipping the Product to Nokia in Melbourne, Florida. Nokia shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.

7 The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:

a) The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of Nokia, including damage caused by shipping.

b) The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, or improper use of any electrical source, damage caused by computer or Internet viruses, bugs, worms, Trojan Horses, cancelbots or damage caused by the connection to other products not recommended for interconnection by Nokia.

c) Nokia was not advised in writing by the Consumer of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.

d) The Product serial number plate or the enhancement data code has been removed, defaced or altered.

e) The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.

8 Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:

a) The Consumer shall return the Product to the place of purchase for repair or replacement processing.

b) If "a" is not convenient because of distance (more than 50 miles) or for other good cause, the Consumer shall ship the Product prepaid and insured to:
Nokia Inc., Attn.: Repair Department
795 West Nasa Blvd.
Melbourne, FL 32901

c) The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.

d) The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.

e) Nokia will repair the Product under the limited warranty within 30 days after receipt of the Product. If Nokia cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, Nokia at its option, will provide a replacement Product or refund the purchase price of the Product less a reasonable amount for usage. In some states the Consumer may have the right to a loaner if the repair of the Product takes more than ten (10) days. Please contact the Customer Service Center at Nokia at the telephone number listed at the end of this warranty if you need a loaner and the repair of the Product has taken or is estimated to take more than ten (10) days.

f) If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused, the Product will be returned freight collect. If the Product is returned after the expiration of the limited warranty period, Nokia's normal service policies shall apply and the Consumer will be responsible for all shipping charges.

9 YOU (THE CONSUMER) UNDERSTAND THAT THE PRODUCT MAY CONSIST OF REFURBISHED EQUIPMENT THAT CONTAINS USED COMPONENTS, SOME OF WHICH HAVE BEEN REPROCESSED. The used components comply with Product performance and reliability specifications.

10 ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NOKIA SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF NOKIA KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NOKIA SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

11 Some states do not allow limitation of how long an implied warranty lasts, so the one year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.

12 Nokia neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.

13 This is the entire warranty between the Nokia and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.

14 This limited warranty allocates the risk of failure of the Product between the Consumer and Nokia. The allocation is recognized by the Consumer and is reflected in the purchase price.

15 Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.

16 Questions concerning this limited warranty may be directed to:
Nokia Inc.
Attn.: Customer Service
7725 Woodland Center Blvd., Suite. 150
Tampa, FL 33614
Telephone: 1-888-NOKIA-2U (1-888-665-4228)
Facsimile: (813) 287-6612
TTY/TDD Users Only: 1-800-24-NOKIA (1-800-246-6542)

17 The limited warranty period for Nokia supplied attachments and enhancements is specifically defined within their own warranty cards and packaging.

Manufactured or sold under one or more following US Patents.
Asterisk (*) indicates design patents pending.

4868846	5519885	5827082	5966378	6112099	6266330
4969192	5526366	5835889	5970059	6115617	6282436
5001372	5553125	5839101	5987137	6118775	6285888
5045973	5557639	584884	5991716	6121846	6292668
5101175	5565821	5845219	5991857	6122498	6295286
5212834	5570369	5857151	5999523	6128322	6308084
5230091	5581244	5862178	6005857	6128509	6310609
5233634	5597102	5870683	6011853	6138091	6311054
5241284	5625274	5887266	6014573	6140966	6314166
5241583	5640395	5889770	6018277	6144243	6324412
5266782	5664004	5892475	6026161	6144676	6347218
5311151	5664053	5898925	6028567	6148209	6356759
5311179	5669069	5907823	6029128	6151485	6359904
5317283	5677620	5914690	6038238	6151507	6363259
5331638	5678224	5914796	6043760	6163609	6370362
5335362	5692032	5915440	6047196	6164547	6370390
5353328	5699406	5917868	6049796	6167248	6377803
5378935	5699482	5920826	6050415	6170073	6393121
5384782	5701392	5926138	6055439	6178535	6430721
5390223	5729534	5926769	6060193	6185295	6434133
5396657	5729541	5930233	6069923	6188909	*29/170210
5400949	5734683	5946651	6072787	6195338	*29/170229
5416435	5754976	5956332	6081534	6199035	*29/170245
5442521	5760568	5956625	6084962	6201876	*29/170246
5444816	5782646	5956633	6088746	6219560	
5446364	5794142	5960354	6094587	6240076	
5479476	5802465	5960389	6097964	6240079	
5487084	5805084	5963901	6105784	6249584	
5493255	5805301	5966374	6108553	6259312	

Appendix A
Message from the CTIA (Cellular Telecommunications & Internet Association) to all users of mobile phones.

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Safety is the most important call you will ever make.

A Guide to Safe and Responsible Wireless Phone Use

Tens of millions of people in the U.S. today take advantage of the unique combination of convenience, safety and value delivered by the wireless telephone. Quite simply, the wireless phone gives people the powerful ability to communicate by voice--almost anywhere, anytime--with the boss, with a client, with the kids, with emergency personnel or even with the police. Each year, Americans make billions of calls from their wireless phones, and the numbers are rapidly growing.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle--whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense---keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seatbelts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need.

When it comes to the use of wireless phones, *safety is your most important call*.

Wireless Phone "Safety Tips"

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember.

1 Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.

2 When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.

3 Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.

4 Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

5 Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.

6 Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip--dial only a few numbers, check the road and your mirrors, then continue.

7 Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix--they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.

8 Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations--with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!

9 Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.

10 Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

The wireless industry reminds you to use your phone safely when driving.

For more information, please call 1-888-901-SAFE.
For updates: http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85
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Appendix B
Message from the FDA (U.S. Food and Drug Administration) to all users of mobile phones.

July 18, 2001 ..... For updates: http://www.fda.gov/cdrh/phones

Consumer Update on Wireless Phones

U.S. Food and Drug Administration

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called cell mobile or PCS phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called cordless phones; which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5.What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques, sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products--and at this point we do not know that there is--it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom

distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a accompanied hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones
  http://www.fda.gov/cdrh/phones/index.html
- Federal Communications Commission (FCC) RF Safety Program
  http://www.fcc.gov/oet/rfsafety
- International Commission on Non-Ionizing Radiation Protection
  http://www.icnirp.de
- World Health Organization (WHO) International EMF Project
  http://www.who.int/emf
- National Radiological Protection Board (UK)
  http://www.nrpb.org.uk/

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